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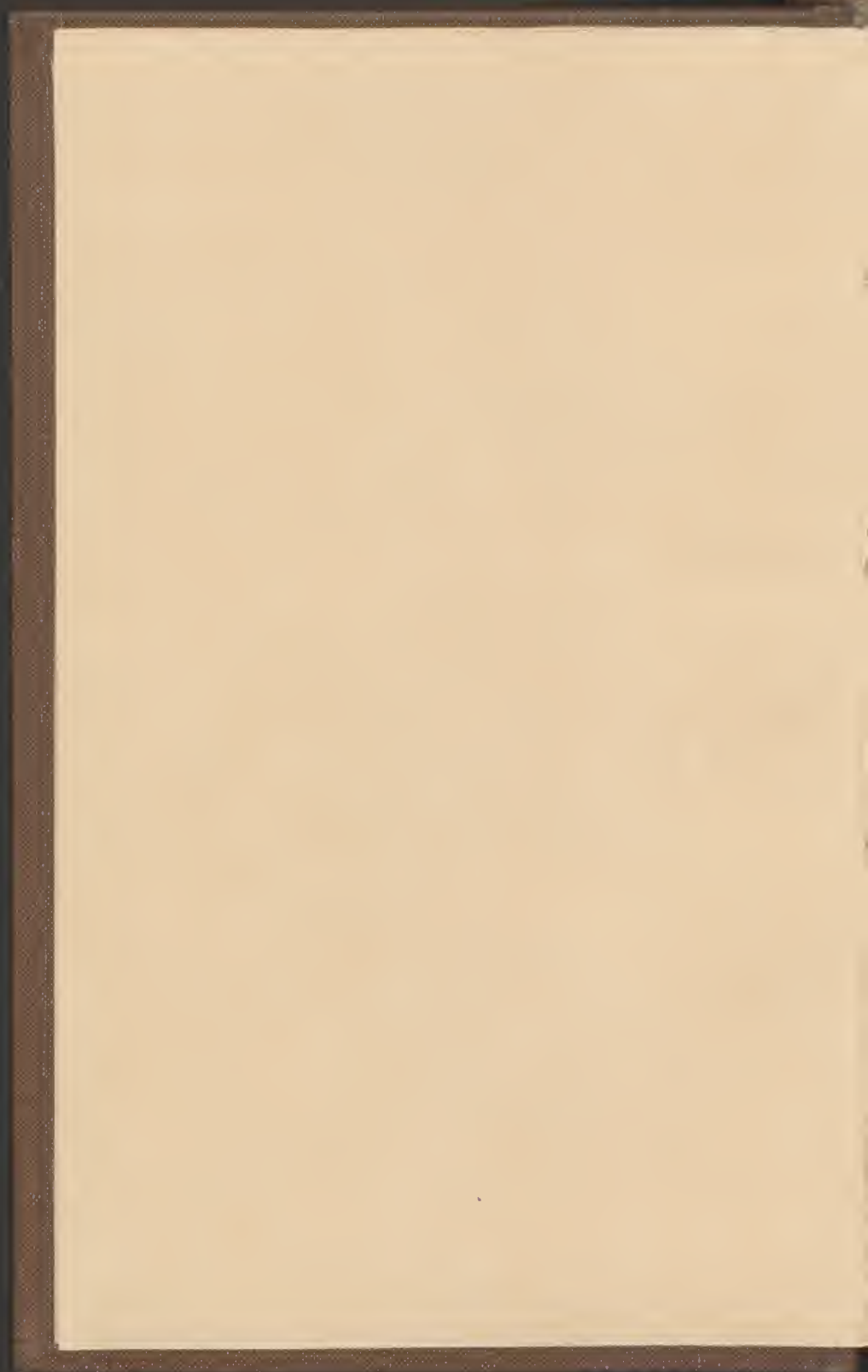
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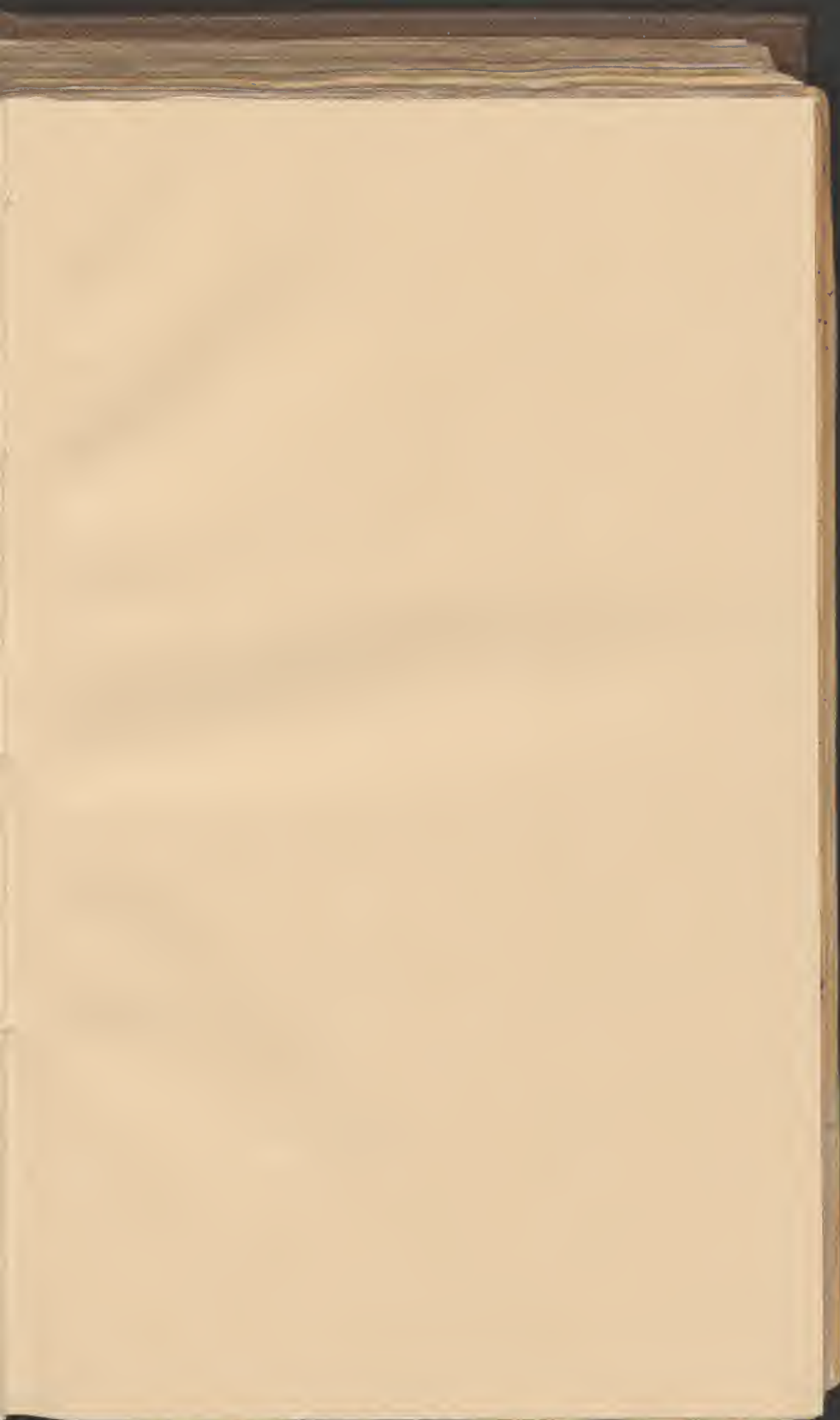








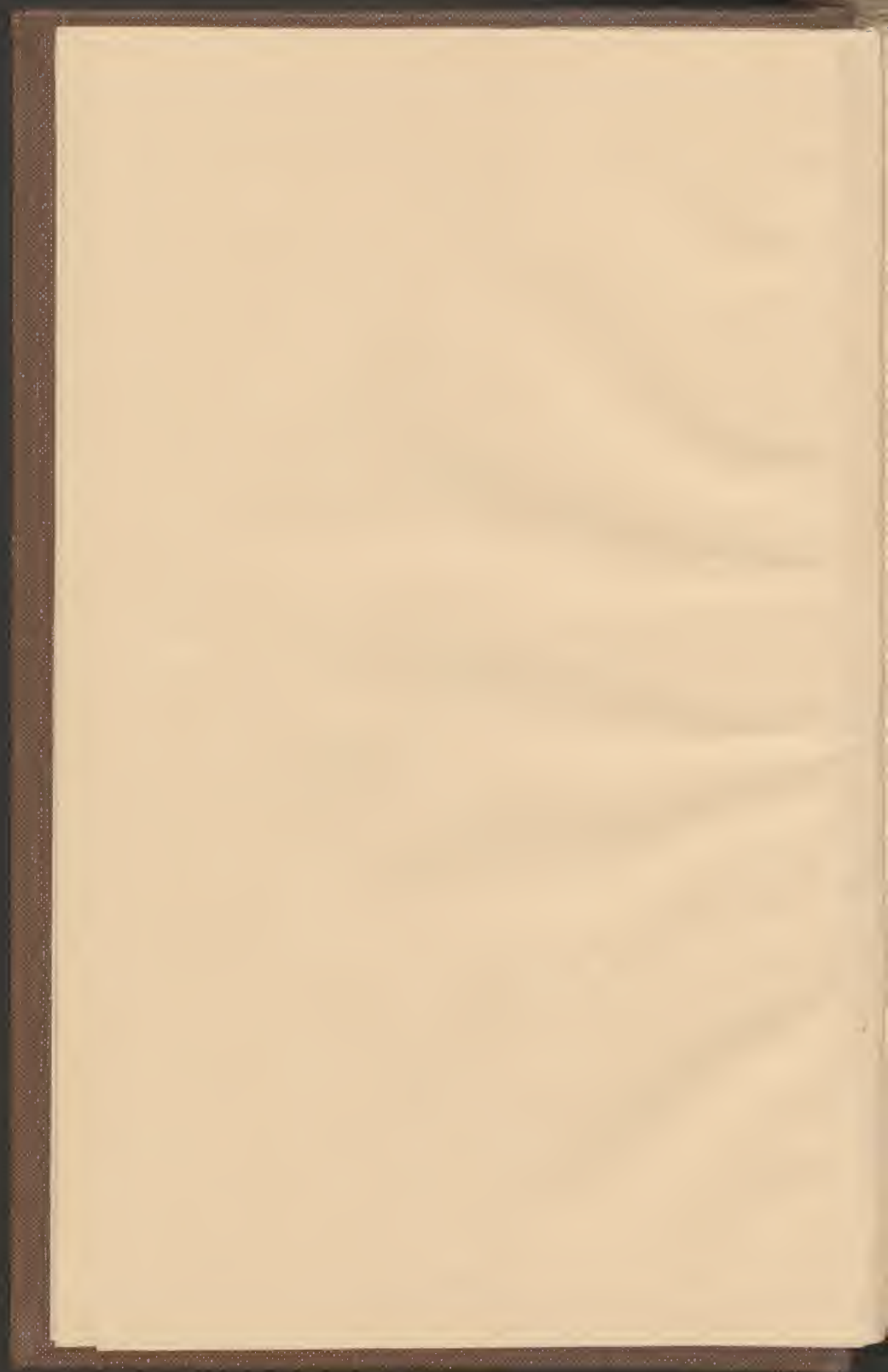




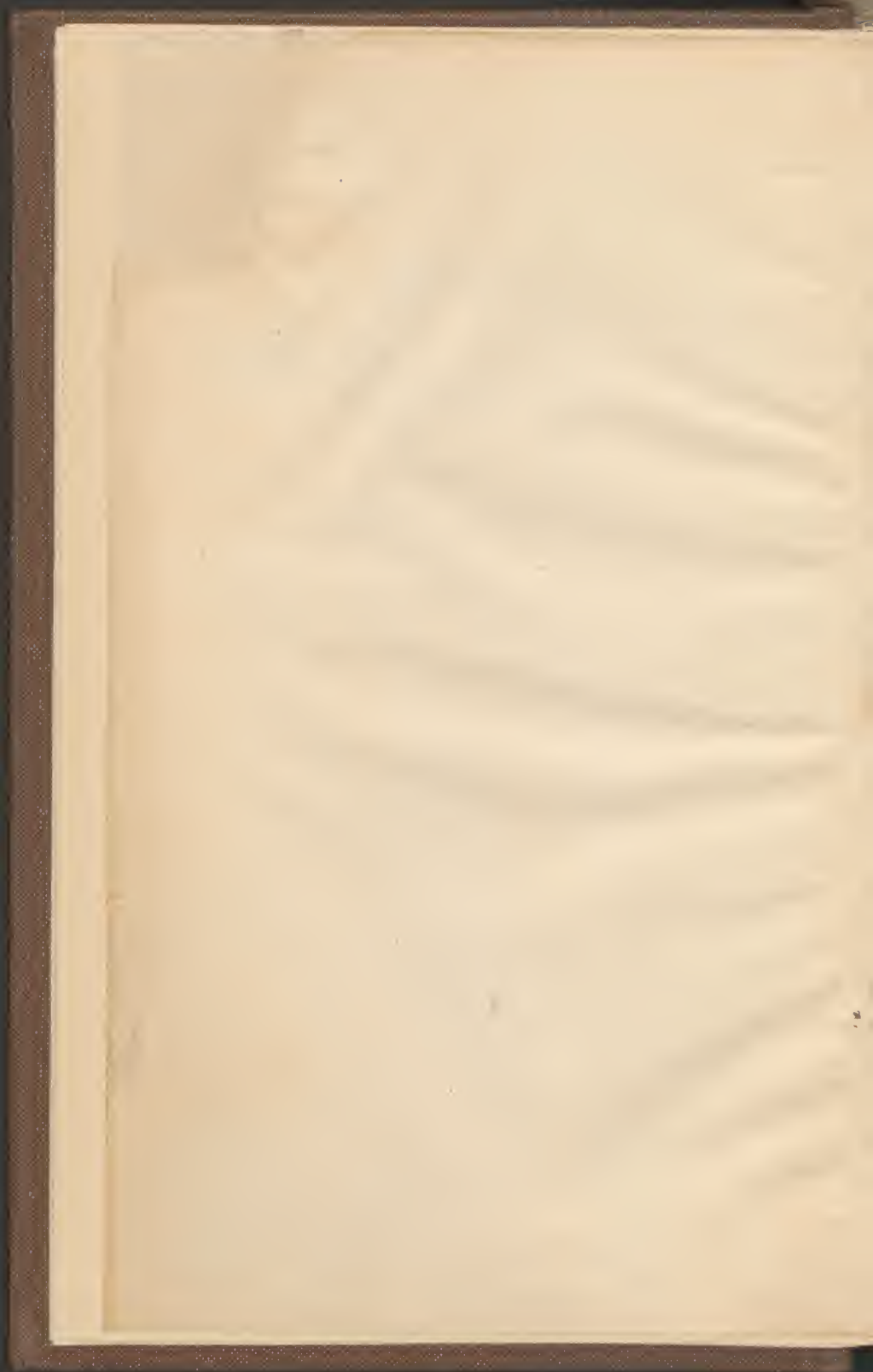








Longy N. H. Taylor  
 17th Nov. 1862





1 #17 1  
Lectures on the Theory  
of Medicine, delivered by  
Daniel Drake - 1830-1 (4551)

On organic & inorganic life-  
animate & inanimate beings-  
Life is dependent on organiza-  
tion. With us put to this or-  
ganization - how did it or-  
iginate - as respects minerals  
chemical attractions exert  
a considerable influence in their or-  
ganizations. It has produced the  
crystalline forms. This consti-  
tutes the vital power. In formati-  
on of Sulph: Soda. There is an af-  
finity between the sulph: acid & soda -  
& a new body is formed. Having  
taste, figure &c.

In animal life there must  
be something else added

to organization. This is then  
 something which we call  
 vital force. It acts; it  
 is motion & keeps in place  
 all the organs. To under-  
 stand this machine we  
 must take it a part &  
 examine each separately.  
 In all mach: It is a point  
 wh we can take hold  
 of & contemplate this  
 structure - but is. No  
 human mechanism we  
 don't know where to  
 begin - It is a number  
 of parts - each seem-  
 ing of equal importance  
 to the whole. The same  
 substance is found every  
 where - If we cut in any  
 part pain is prod: & blood

will flow - Hence blood &  
nerves are every where. Ema-  
tiation takes place in all our  
organs - Hence absorbents - Nerves  
every where. But all these  
are connected by the cellular  
lymph. Thus thus blood vessels  
nerves absorbents & cellular  
membrane are found every where  
Now when you <sup>to abst. from</sup>  
the human meat: <sup>the blood vessels & nerves</sup> & what will  
you have left? A mere caput  
mortuum. Nothing wanted  
to represent life. All the  
figures with which your mind finds  
in books, are found in nature  
since universal nature I have  
spoken - There are all kinds of  
variations of the same  
thing with some few excep-  
tions.

The blood vessels are all  
connected - all coming to or



originate & terminate at the  
 heart - completing a complete  
 circle. There is continually two  
 columns of blood - one going from  
 the heart & the other returning to the  
 heart. & then again every  
 nerve is con. with the brain  
 & spinal marrow either  
 directly or indirectly. No  
 matter how remote the  
 part - even to the en-  
 amel of the teeth. When  
 and it is sensibility the  
 must be nerve.

Whatever view we take  
 of the human system  
 we will find it a con-  
 voluted of veins, arteries,  
nerves &c. Take every other  
 tissue away & yet still  
 we will feel, think &  
 move. The circulation might  
 go on. Take away the

among & you will find  
in animals capable of ex-  
isting & performing in two  
degrees, the part which we  
call it.

The various convolutions  
of the blood vessels, nerves &c.  
may be compared to a hol-  
low tree & its branches. And  
forming & constituting or-  
gans, performing the pro-  
per functions. They are  
the component parts of  
all our organs.

We know of the embryo  
is a fluid mass - that from  
this <sup>infusible matter</sup> is builded up. & so  
not mean to say of the  
many & look out from of  
brain &c. like the branches  
of a tree - but that they  
are finally con: as it  
& constitute one whole.



6  
You might enquire into the  
relative importance of these  
two aspects - Now what use  
the animal creates food?

If we view our self as  
intellig. being & looking to the  
pleas<sup>ure</sup> of mind - & No. 1, come  
up to intel: gratification  
we would say that  
the means by the hand  
of ascending & that the  
blood vessels were to  
supply their wants - but  
here we have to consider our  
social relations. That  
this was the great end  
of our being and might  
be led to diff: conclusions.  
The vegetable tribe seems  
wholly employed in forming  
& obtaining these fluids -  
When we consid: the destiny  
of man - his faculties & his

his gay imagination. but  
might consider the nervous  
system his very thing. This  
gives him the eye that sees  
the mind that thinks & feels.  
The nervous, absorbent system  
is and but mere subordi-  
nate agents. The mind  
is the master of the nervous system.  
This is the high, the digni-  
fied, grand function <sup>of</sup> of  
man. Take out the  
nervous mat: for the  
animal body & you are  
once more to a new plane  
- one in the lower order  
of the chain of creation.

In taking this *a priori*  
view <sup>this</sup> seems to me the most  
useful way of coming at  
the organization of the human  
body. You must not

21  
Foggy east or jaw. Contin  
place east & you will  
find this modification  
of the something - modif.  
of the set of fibres. In  
this mod. not only dif.  
of form results but also  
diff. in function. But  
is this dif. of form or  
indicating the sole cause  
of the dif. of funct. - This  
may be the sole remote  
cause, but it is not  
the approximate cause.  
That susceptibility of 2  
had before spoke of. has  
certain modif. or pecu-  
liarities. The part is  
susceptible to one impres-  
& another to a dif. sus-  
ceptibility to impression.  
It is a modified suscepti-



bility. The cellular tissue has been  
 called the primary tissue of the  
 body. The nerves & muscular tissues are  
 said to have something else added.  
 The skin is the great covering membrane  
 being a kind of cellular tissue. The  
 skin is only one part of the general  
 covering membrane. For when we come  
 to the mouth we find the  
 membrane changes  
 it, having covering it is changed in  
 a mucous surface - covered with  
 pits or a delicate coat. This is  
 different as relates to the skin  
 but in relation to other organs  
 it is the same, as the skin.  
 These two are modified as  
 one real tissue. The skin is  
 generally uniform - some parts  
 are thickened & others thin. The  
 mucous membrane are not so  
 depressed or elevated - The vital  
 properties are various.

The adhesion of the membrane  
 is very great. The lips, present  
 with the first change of mu-  
 cous membrane, from skin -

It lines the nostrils - the larynx  
 the ~~trachea~~ oesophagus. Stomach. Intestines  
 &c. It may be lost entirely  
 in the venous system. This  
 probably Langer place is the  
 chylous tubes. At the rim  
 of the glottis we again meet  
 with the mucous membrane. &  
 from this point it extends  
 over the bronchial tubes.  
 Here its ramifications are  
 astonishingly great. At the  
 pulmonary region we again meet  
 with the mucous membrane. At  
 times the regions of the pericardium.  
 The uterus. The bladder. The  
 prostate, &c up to the Kid-  
 nies. Terminating in its pelvis.  
 In referring to the mucous mem-  
 brane of lungs we might begin  
 at the trachea. This is the  
 Schneiderian lining &c.  
 The larynx near and the  
 conjuncture of the eye the



ear also has the external  
segmentary membrane. This  
is rather a dripping in of the  
odor. It has a mucous membrane.

Now between the mucous  
membrane & the segmentary  
membrane we have a variety of  
organs. The most we must  
begin to understand perhaps  
egg. Internally we have the  
serous membrane: it is nothing  
but condensed cellular  
admission only ~~white~~ blood  
& destined to perform as  
particulate matter. We have  
the in the pelvis, abdomen, in  
brain, in thorax. They are  
complete bags. The coats  
a covering for the viscera  
especially in the abdomen.  
So when any one of the  
organs come together it  
is like the contact of two

full bay. A fluid ex-  
 ists from the smooth  
 surface. While the mem-  
 ber is in the air and  
 exposed to the contact of  
 foreign agents, the serous  
 membrane is entirely ex-  
 cluded from external  
 objects. But when they are  
 subjected to the external  
 world the membrane be-  
 comes dis-  
 tinct. There are many  
 other systems, but to dis-  
 cuss is not my part to  
 treat of. I will how-  
 ever remark on some  
 of the more particu-  
 lar. I will speak  
 of the gland: of the  
 as well as the one which  
 have often to do. The  
 an consists of vessels.

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To this belong the liver, spleen,  
kidney &c. These are said to  
be parenchymatous, but  
when we examine the minutely  
we will find the compound  
of secreting vessels. & vessels  
going to supply these secretory  
processes. The liver is made  
up of the vessels of the vena  
porta, hepatic veins & artery,  
pancreatic &c. bound together  
by cellular membrane. There are  
glands about the mouth,  
called the salivary glands.  
These are both more than  
veins rolled up & bound up  
with cellular tissue. In books  
we are presented with the vas-  
cular system. Now what are  
we to think when we have  
been previously told that  
these other systems are made  
up of these very vessels.



These vessels are made up  
 of the first primary tissue.  
 The heart is made up of the  
 muscular tissue. We are  
 to look upon the human  
 body as composed of a  
 no: of hydrolic tubes rolled  
 & convoluted into various  
 forms. Therefore in studying  
 these different tissues of wh  
 I have been speaking, you  
 have been but studying  
 the vascular tissue. It  
 makes no matter when  
 you begin. The same re-  
 mark applies to the ner-  
 vous system. In prop: as  
 the vessels become smaller  
 the amount of nervous mat-  
 ter wh they are in con-  
 tact becomes greater &  
 greater. Therefore wh  
 you have been

15-  
studying these tissues you have  
not been neglecting the nervous  
tissues. For if you strike those  
organs out of existence you  
will have no nervous system  
to study.

Besides these <sup>higher</sup> ~~plain~~ & the  
subordinate tissues. We have  
the organic tissues. They consist of  
cellular or vascular tissue, filled  
up with a concentration of  
the phosphate of lime. The mus-  
cular - the fibrous - & ligamentous are  
amplified in the same manner -  
The anatomical elements vary  
in the proportion. These aggregates  
make up the animal body.  
All the diff. organs are so they  
more than so many masses of  
organized matter - They have a  
degree of elasticity about them & so  
they therefore must have had  
a capacity of life while performing  
the functions, from the moment  
this we form life.

A diff. of pressure and color

16

The tongue uses a long life -  
This point produces any disor-  
der of the tongue - all remains whole.  
yet the consequences have  
been death of the vital functions.

Stomach is more mysterious  
than the principle of action  
life & the manner of it  
is described to be apart  
as I have mentioned. There  
is a power or capability of  
being acted on & producing  
certain operation & functions.  
The are as, emanant of this  
power, as the power will build  
up these structures. Now  
this capacity - is found in no  
part; part but it is uni-  
versal. If any part had  
it not it would be  
an overabundance. It might be  
out of it. If this capacity say  
the hair, nails, skin. I have  
known some be anxious  
to express this capacity  
as, probably, or credit.



14  
sensibility. We have heard  
so many times, heard to be  
made this. A person is said  
to be sensible, not he is wise  
by nature, by all other persons  
are not affected. It is  
said to be easily excited.  
By our own feeling we judge  
of this. We judge of it by our  
consciousness. The word  
contractility expresses the  
power to contract or a short-  
ening & a subsequent relax-  
ation. The word sensibility  
has been used to express the  
fact that of those parts  
we are capable of having  
conceived of certain im-  
pressions. There is no cer-  
tain principle to which  
sensibility is referred. Be-  
cause cases the sensibility of  
the heart organic sensi-  
bility a sensibility in the  
feels. No teacher is

able to adhere to the use  
of any one of these terms.

They are in all the books  
and synonymously. Some  
have a partiality for one  
more than an other term. They  
are all referable to the ph.  
we call living. When we  
bring potash we in effect  
acid. we say there is a dis-  
position to unite. Why does  
potash do so with soda &c.  
we only know the fact. we  
don't know the cause. An

eschorotic action on the skin.  
Sensibility - pour oil or  
water on it & no pain  
is experienced. Then there  
is a capability of acting  
on the these substances.  
Different sub: produce  
diff: effects - when applied  
to different parts. This  
is what creates the

diff. of sensibility.

It is sufficient for us to know that this capacity of being acted upon, tho differently exerted every where thro our bodies.

Now I would like to know if there is any organ to which this capability is referable. This seems in some degree to exist in the cellular tissue. This forms or enters into all the organs or tissues. This comes from the parent. It might seem that all the sensibility of the system generally depended. They first had it because they were made up from it - but once having it they no longer depend upon. The cellular tissue seems particularly to have lost its sensibility to foreign agents & in some measure resembles dead matter.



We have no reason to sup-  
 pose absorbent vessels supply  
 this principle. They carry  
 of the secretions mat-  
 Therefore they cannot be the  
 excretories & communica-  
 tory of this capability. Nor  
 does it rest in the veins -  
 They carry the blood off  
 is no longer fit to remain  
 in the organs. The venous  
 blood cannot sustain his  
 dependence. There are  
 but two systems on which  
 the capacity can depend  
 The Arteries & the Nerves  
 The brain & spinal mar-  
 row - from which the  
 nerves are sent off -  
 Since experiments  
 do show this principle  
 as correct. Cut off the

supply of arterial blood  
 of the part air - The same  
 may be said of the nerves.  
 Therefore it is evident the  
 Ann. Systems are essentially  
 necessary to keep up the  
 principles of life. But is  
 it the blood or is it  
 the tubes it carries the  
 blood? The arteries are  
 nothing but tubes or pipes  
 to carry onward the  
 columns of blood. Stagna-  
 tion is where takes place.  
 On the part is velocity  
 may be diff. - but still  
 it goes onward up here  
 & down here until it  
 reaches the venous radicals  
 & carries it back to the  
 heart. From it is moved  
 & carried up & down the  
 blood & pervades the



whole system, keeps up &  
 maintains his capability of  
 the organs of being acted on.  
 If it is decided in an or-  
 gan, that organ loses its  
 functions - & is allowed  
 to remain dead the organs  
 die. The blood must be  
 circulating - & must be  
 passing onward. There is  
 no such a thing as re-  
 sident of blood - it must  
 make its exit by means  
 of the veins - But the same  
 blood may be returned to  
 the organs to perform its  
 same task. It must pre-  
 vious to this return to the  
 lungs - There it becomes  
 decarbonized or it con-  
 tains poison it throws  
 out into the atmosphere.

th. of charcoal. We must  
 sup. the blood is is-  
 sap. thro' the lungs and  
 goes down to the heart, it  
 for come. This capacity, but  
 let this is the point of view

Now we come to the  
 new system. The nervous  
 mat. is composed of a  
 pulpy mat. arranged in cords.  
 The brain, the cerebellum &  
 the cerebrum & medulla &c  
 are comp. of this white fibres  
 & imbedded in pulpy. The  
 nerves, the brain &c are  
 enveloped by a tough serous  
 membr. The envelopes  
 near the comp. to the  
 basis. Now we say the  
 the nervous system is not  
 resident in these functions  
 but more resident in the

fully mat. This nerve  
 mat. like the blood is  
 continuous & uninterrupted.  
 Not like the blood  
 it remains motionless.  
 The Medulla oblongata seems  
 to correspond to the heart.  
 All the nerves seem to or-  
 iginate from this base.  
 This seems the centre of  
 origin. If we cut a cross  
 below this point & all  
 life below is cut off.  
 Information is destroyed.  
 But if you slice up the  
 brain above, the nerves will  
 not long be injured & ac-  
 tion below.  
 But as the funct. of the  
 nerves seems to be somewhat  
 specific. From this centre  
 there seems to be something



irradiating. we conclude the  
 the neuron system is not  
 a part of sensation. The quan-  
 tity of radiating mat. going  
 to diff. parts is diff. Some  
 parts hence are more sen-  
 sible than others. It is now  
 sending in me it influences to  
 the part of speaking while to  
 the part it is doing it more  
 & more. What is this mat? -  
 It is the pulpy nervous mat.

It cannot it is evident  
 be that it like a cord trans-  
 mit its influence. How is it  
 effected? we don't know - but  
 we are forcibly led to say  
 it must be something - we  
 can't give it our minds of  
 this question. The finger  
 feels a sensation. This is  
 long mixed to the brain. it

26<sup>th</sup>

must be something that is  
transmitted. Is it electricity  
or galvanism. Is it the  
either of these it then acts  
diff. flows wh it is left  
to, than among man-  
made bodies. If it is  
galvanism then must be  
something to modify. And I  
can't see how a drop  
of prussic acid tries  
but this fluid & wh  
it is removed life &  
sugar is not preserved  
in pieces in the body.  
This fluid. But what  
is it that takes it away  
of these prussic acid. &  
it will not admit of radiation  
it is all in the body. We must  
if we admit nerv. infl.  
to be owing to galvanism.



27

There must be something a great deal more added. So in calling it Perfectionism, we do not at all. We call it consciousness - not - & given it to intellectual objects more of these senseless things placed without consciousness. Therefore they cannot be wholly be referred to that principle we call soul - the thinking faculty. Were this the case no one, especially if the way found of talking would have the least sense.

This principle cannot take cognizance of itself. Therefore we must ever remain ignorant of it. I prefer to use the word mirror instead. This merely expresses in fact without attempting to explain its operation. This analogous throat to system, to the blood. This we

arterial influence or dangerous.  
 Now these two are absolutely  
 necessary to the inevitability of all  
 the system. If the heart is destroyed  
 the acts of life disappear.  
 I would make a further remark  
 on the terms inevitability, excitability,  
 contractility &c. We are  
 now speaking of function in a  
 perfect heart. To use the  
 term inevitability is referred  
 to a hearty function: done  
 seen to be unhappy. This  
 cannot with propriety be called  
 a inevitability. Or of the  
 inevitability to a normal or:  
 function seems very improper.  
 I will not use the term  
 excitability here. The heart  
 organ is capable of being  
 acted on we say it is  
 excitable. Irritation I  
 would only refer to a

morbid action. I also ob-  
ject to contractility. Whatever  
the Eff. we may conceive to  
take place without cont.  
or elongation, we shd want  
to see so as to be correctly  
describing junctions or ingression.  
I shall therefore always  
use the term extensibility  
preferred to any other.

When you are aware of  
eff. by the heart an unequal  
distribution - Next we  
nervous divided we  
find more blood in one  
organ or tissue. This is  
also applicable to the  
nervous system - Some  
parts are largely sup-  
plied by nerves, the more  
sparingly. Still in this  
in con: with the fact: it  
the vessels themselves are  
the means by which the nerves



are conveyed to a point.  
 The nerves, however, chemically  
 around them & follow in  
 them. Anat. like all the  
 we cannot demonstrate  
 them in many parts. But  
 the physiological evidence  
 is apparently. When we  
 come to the capillaries, ves-  
 sels the nerves & vessels be-  
 come so intimately blended  
 that we cannot separate  
 them from each other.

In the next part of the  
 art blood is most nu-  
 merous, and the nerve, are  
 also. This is another  
 evidence that the two  
 keep in perfect harmony in  
 action of life. In bones  
 we find but few nerves  
 & blood vessels. Hence the  
 necessity for these organs.

influence.

I think is <sup>taking</sup> up: the  
 soul: in this way I looking  
 at it with sympathy & so  
 can certainly make some  
 advancement. It is understood  
 from what has been said  
 that the animal & func-  
 tions are dependent on  
 those two influences &  
 the other exists themselves dif-  
 ferent organs & tissues. But  
 whether the nervous system  
 is all in all: is  
 cannot say. But it can  
 do much for the variety of  
 structure. Every organ  
 or system has its own, its  
 modification of functions &  
 excitability. It consists of  
 functions: each organ per-  
 forms separately in the same  
 way as the physical laws



quity. In this way we will  
obtain the most useful & con-  
crete knowledge. This  
knowledge of essentiality is of  
immense import: to the  
physician - both in the  
med: & practice de. &  
in Toxicology - without this  
knowledge we could never  
have classification of poisons  
agents.

Some parts of the body  
are more liable to take on  
the pt: of sensation than others.  
In some parts impressions may  
be made & we do not have  
cognizance. Prickles made  
over the surface of the skin  
with the hand never give  
rise to pleasurable feelings -  
when the impress is done  
made with a needle or  
needle from vice to pain &

Some organs when application  
of external kind is made do not  
exhibit sensibility. This latter  
kind is the point of junction  
with pointed instrument. It  
is twisting the in joint is  
very great. This seems to  
have been used in the pre-  
paration of the body. That  
are the avoid working.

The part, which is  
in most act, is not  
not only a large cup  
of blood & nerves, but it  
also has the greatest  
amount of excitability.  
If you cut off the supply  
of it in excitability  
ceases. Many animals  
it seems to have few  
nerves, that is the head  
is cut off & all nerves  
are cut off. They are  
never capable of it.

excitability. From this fact  
we might be led to con-  
siderably did not depend  
on the blood & nerves. If  
we sup: an independent  
infl: one indep: of nerves  
& art: d. - The excitability-  
of a vessel is nec: is in  
motion of the blood. It  
is a peculiar action &  
this implies excitability.  
We must consider this  
when it is great excitabi-  
lity must be a great  
supply of blood & ner-  
ves. You bring an ex-  
ample to a organ you  
excite the muscular system  
& the nervous system. You  
deny the excitement  
of the organ & it is a great  
act with sufficient energy.



You entering the body in excite.  
 It will seem to it is by  
 stimulation that a cond: of  
 an organ calls for the a  
 great amt: of new life: &  
 blood. You excite a part  
 of alcohol in blood is  
 directed to that part.  
 There is an increase of new  
 life. - But if you had  
 running cut off the new of  
 this part you would have  
 no increased flow of  
 blood to that part. You  
 will show how the new  
 life exists the state of  
 excitement.

The I am not seen to.  
 The nerves & art: are both  
 nec: to an increase of  
 excitement. We have  
 seen that a dif: part of  
 the body has dif: degree



of excite. We are also  
 led to see that if the  
 part is much excited &  
 excitement will be de-  
 termined in the part.  
 We shall therefore see  
 now why the dis. is  
 not: now the cond.  
 If any one of the organs  
 to be made of its  
 organ is not complete:  
 It does for it is  
 it being made. That  
 it is a kind of inward  
 state - It performs a  
 function; but it is not  
 that of a healthy act.  
 The act, in accordance  
 with its function in  
 the part of the body.  
 There are three or

however rare dis: and  
 no prevailing who the  
 most of fruit: is the  
 greatest. This is the: or  
 blood is great. in the:  
 wife is great. the the  
 machine is most heat:  
 or just out of order. This  
 same law is applicable  
 to all complicated ma-  
 chines. When directly  
 supplied by a machine  
 more comp: than the  
 form of used - trip  
 part: now are hard  
 to know. La de peas. for  
 many they are frequent.  
 If you will or know  
 the part most likely to  
 take the dis: open your  
 books in physiology

Of these you will find  
 They are now most common  
 in the forest: & I should

be have been talking  
 much about such: &  
 actions. & we are thus  
 but often we seem to  
 definitely. Of these functions  
 we cannot always, find  
 representation of ~~the~~ functions.  
 They are beyond our senses.

It seems what I should  
 have to learn before we  
 this morning: we were born  
 to eat this the medium of  
 the blood. The blood is  
 formed out of 12 nutrient  
 glands etc. It has become  
 solid per se. It is aeriform  
 state. The blood from



a great quantity of our bodies  
 for part: acc: to the blood  
 I refer you to prof: of anat.  
 &c. This view of course refers  
 to it. The blood has 3 appor-  
 tions - a watery part &  
 a coagulable part - & red  
 Globules. The blood of animals  
 is made up of all the elements  
 It is remarkably homogeneous  
 & has a tendency to keep  
 whole in a uniform condition  
 It is made up from the solid  
 food - in from without. They  
 too must have their parts  
 of organic being each related  
 to animal wastes &c are  
 the elements of regulation - but  
 to support animal bodies  
 organized substances is necessary.  
 The element is first taken  
 in mouth & then swallowed  
 & taken into the stomach  
 in the blood in the vein



a fluid from which it takes  
the passes into vessels. The  
nutr. particles are then absorbed  
& pass into venous system.  
The blood passes from the right  
side into the lungs, & the into  
the left side of the heart.  
It is always necessary for it  
to pass thro' the lungs to  
be freed for nutrition.

If we examine animal waste  
live on animal food & the  
waste live on vegetables we could  
not find much diff. in the  
blood. This the diff. from the  
nutr. taken in. It is the  
part of animal food that  
decomposes & forms new matter  
out of the substances taken  
in. A change is made in  
the compound. This is what  
exactly occurs, in lactification  
or digestion - as assimilation  
all of it and necessary to  
form the blood.

41  
2  
we beheld now. but change  
it.

When we look more the  
deeper we find it - how  
the blood circulates thro' the whole  
body - The whole body is  
under your nose with most  
than a reversed map.

Now what it is carried to ac-  
hants for what is it? It

is for some: to connect the  
with his animal economy -

A continued series of decompo-  
sition takes place. All parts

have previously existed in the  
blood. There is the albumen  
of blood - we find many of the  
parts composed of this sub.

It we have have many sub-  
stances of Selatin, this is not

more than modified of  
albumen. The elements of

the various tissues of the body  
are to be found in the blood.

What takes place in body is  
done: more than a exchange

the blood a little altered

42  
in its form. This const: repro-  
duction.

We have secretions, as the  
mucous in mouth & stomach & in  
bile - the pancreatic juice &c -  
We cannot look at animal  
economy without beholding  
secretion. In all the organs of  
the body we find fluids thrown  
out. These all have a re-  
lation similar to that of mu-  
cous to the blood. The se-  
cretion we are throwing out from  
the human mouth is taken from  
the serum of the blood.  
In urine we find found  
the engorged, nitrogen, hydro-  
gen &c are found to exist in  
the fibres of the blood. They  
are all secretions. Some is  
the man, the called excreted  
as the bile, & the urine. We  
under the syngoniac & the  
don mouth. These are not  
excretion.

The part: at I have



described make up those of  
the body. The act of hard sym-  
on mat: - complex in cont to  
undergo new changes - & we  
are cir: in various directions  
so that the animal function  
only presents to us complex & de-  
composition of mat:.

we have the function of  
delicacies - we say we see -  
But we have a sense of  
a specific kind - the sense  
of touch. This is not: mod-  
er than we have a mode  
of existence of it we are  
conscious. You will observe  
that a small portion of  
the body is appropriated to these  
functions. But still it is  
the function of nature to keep  
in the position. If the  
optic nerve is unable to  
transmit the impres: this  
must be some effect to the



nature found in the parts.  
 Now we is a thing, almost  
 this hemisphere - one side  
 side as it is from want  
 of food in the cap. vessels.  
 But how another will tell  
 you there is no cont. in  
 these vessels. It seems to  
 me that in men the  
 the blood that the vessels are  
 not only to nutrition. The  
 are not: but they do. I  
 cannot conceive of any purpose  
 the cont. of these tubes. An-  
 equal distrib. in all parts  
 place. I frequently see. But  
 we know the air is a part  
 of necessary life. But  
 if you call up a function  
 to perform an additional  
 part that is an unequal  
 distribution of the blood.  
 If you take a dish  
 into the mouth & make

eat it. There is an afflux of  
 blood to that part. You  
 have an increased secretion.  
 When taking up an article into  
 the stomach. Now it used  
 happen to the heart, it has  
 it will have an increased  
 function. There is a conversion  
 of nutritive fluid in acid. The  
 result. A great amount of  
 blood is sent out in a per-  
 tains, & the nervous energy is  
 is also thrown out. This is  
 necessary for the standard to  
 act on the food. When we  
 have what is called an excite-  
 ment we have an increase  
 of nervous influence to that  
 part. & also of arterial  
 blood. When the end for  
 which it was designed is met,  
 again returns to its for-  
 Standard of action. When  
 this has taken place in

in one organ it takes place in another.

Now we will at a future time come to make an application of all that I have said. We cannot - you will find that we cannot have disease without disorder of digestion. Dis! comes out to be not far an improper distribution of the ~~fluids~~ ~~food~~.

When one organ is diseased in function, other organs may be affected in various modes.

The animal machine is wonderfully complicated. & all these are brought in to a morbid play by a disorder of one of these parts. Since you will see how complicated the phenomena of disease will be. But we are in now by the phenomena:



47.  
of disease? not more than is  
symptoms - The organs continued  
to act but they are not equal  
as are in accordance with the  
funct: of other organs. Since  
you will see these must vary  
in diff. parts of the body.

Dr Rush defined dis: to  
be morbid action. This is not  
exactly right yet it is not  
altogether wrong. Dis: has not  
that unvaried act: of unity.

How did this morbid funct: have  
ell from the organ on which  
the morbid action was made?  
This is the question wh has long  
agitated the med: world. This  
is a question little understood by  
the profession.

I call your att: to the  
blood. because the blood is  
obvious & palpable to us. It  
is nec: to the blood shd  
circ: thro the animal machine.  
It is proper under cert:



cord: a larger amount of  
 blood is required to a part  
 as in the muscles in perform-  
 ing loco motions &c. But still  
 it is not the the circ. of blood  
 that be uniform & uninterrupted.  
 In a skin the blood is thro'  
 from the external cutaneous  
 surfaces upon the internal  
 viscera. This is what takes  
 place when cold or mori-  
 bility is applied to cutaneous  
 surf: Then there is a morbid  
 of unequal distrib: of  
 blood. Then dis: is com-  
 to internal parts by ex-  
 ternal causes. I doubt  
 sup: if any change in the  
 blood itself or any change  
 in the vitality of the  
 system. It is only a trans-

ing off of the blood from the  
external parts to accumulate in  
the internal organs. Then the  
nascent morbid act. comm.

Let us now consid: the  
change it takes place in  
the blood itself. It is the law  
of our economy the blood  
should be kept in a uniform  
condi: If an organ re-  
ceives blood of a certain qual-  
ity from the heart  
act: this will need it is  
absent in the organ. That  
the blood is freq: changed is  
unquestionable. Sup: im-  
mature food is used for  
a long time as is oft the  
case on ship board, the nu-  
tritive particles of the blood  
will not be that designed  
for healthy action. And

You will have dis: lighted  
up from this cause. The  
great obj: of the blood is  
nutrition - exercise & re-  
creation & exhalation. ex-  
cretion takes place from  
the kidneys - exhal: from  
the lungs & skin. If one  
of these funct: is impeded  
the excretion dont take  
place from the kidneys -

The excrementous mat:  
wh: they were designed to  
be thrown off by urine can  
be retained & this urine mix-  
es with the blood & be-  
comes a poison to the  
whole system. often is  
the product of Gouty  
a local cause with  
referring it to Gouty & the kidney:



The skin performs an excretory  
 funct.: The mat: thus thrown  
 off is excrementitious. If this  
 excrement is retained & the skin  
 does perform its funct: it  
 is taken along with the blood  
 & this is then brought over  
 The same may be said is  
 diffused to the pulmonary  
 exhalation. From retention  
 of bile it is absorbed into the  
 blood & become we may say  
 a poison to the funct: of life.  
 The blood loses its nat: as  
 best - the serum becoming a  
 tinge of yellow.

The funct: of skin &  
 kidneys now are aware  
 & vicious. This may be  
 as an obj: to what I  
 have said above. Then as  
 nature: enters & they do



Ormet. perform act. for  
 one another. When the kidneys  
 are exasperated the patient  
 dies - though the particles of  
 the urine is carried off  
 thro' the other secretions -  
 During cold w<sup>h</sup> the cutaneous  
 exhal. is small & the  
 flow of urine great. This  
 does not arise from a vice-  
 action but from a large  
 amount of blood being  
 thrown on the internal  
 organs & hence the elimin-  
 nation of urine is greater  
 than usual.

The concl: we have come  
 to - are 1<sup>st</sup> w<sup>h</sup> the blood is  
 deflected from one part to  
 another, dis. is increased - or  
 has from the direction of

nutritions from unwholesome al;  
 the blood becomes vitiated &  
 Dis: is brought on. 3<sup>d</sup>. Next  
 when the excretory organ is  
 defunct in its funct: - the ex-  
 cretions mat: & this m:  
 can & it have been thrown off  
 & is retained in the blood for  
 use to morbid action.

Dis: many arise from  
 an acc: of blood in the  
 sinous canal. as in the  
 dura mater. You will th:  
 some another case is when  
 an infl: exists in a part  
 but we have infl: about  
 the head & scroto as by  
 will pulsate & finally con-  
 muneate dis: by the part  
 shot by nervous reflexes  
 and by the increased amount  
 of blood sent to the part  
 - into them from the  
 amount of blood plus

in cordis canal. This may  
 refer to it in the case just  
 in you yesterday. I  
 spoke of. A great illness  
 emanating from a the  
 kidneys &c. This I thought  
 by on was the cause of dis.  
 There are cans analogous  
 in this - As when the  
 internal surface of the  
 vein becomes & inflamed.  
 & pus is drawn out. &c.  
 pus is then carried into  
 the air: & produces general  
 dis. - This is not from  
 the shock the nervous  
 system receives, but from  
 nothing more than a  
 foreign sub: in the blood.  
 It air: with the blood &  
 reaches the heart, into  
 the brain & in this way  
 frequently proves fatal.



You see this is a case some-  
 what analogous to what  
 I pointed out yesterday.

The appearance of the  
 blood when drawn from  
 a person suff. under this.  
 The cupra, the buffy coat  
 as you all know is an  
 indication of infl. action.

I have seen this ap. of  
 the blood induced in a  
 few hours by sinapisms.  
 an infl. of the eye will  
 also give rise to it. This  
 ap. arising from some de-  
 compl. of the tissues placed  
 in the blood. All pres-  
 5- than have in infl.  
 has wrought out an ap.  
 of modified kind on the  
 mass of blood. This  
 is a matter of importance  
 for if the kind of motion



Oxygen can produce the  
 how much ought it to  
 demand our attention.  
 Who can pretend to say  
 that this: tho' our re-  
 system is not the cause  
 of the general dis. On  
 this I think we have a  
 great deal to learn.  
 Acting on an all the  
 functions: it will undoubtedly  
 excite a morbid action.  
 The blood you are aware  
 tends to the preservation  
 of all the organs, it  
 seems to regulate the  
 functions to maintain  
 the vitality of all  
 parts - On it are all  
 these dependences. More  
 I presume may be said  
 to this than to any other  
 influence. Let us con-

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it is a part of engineering w<sup>h</sup>  
of modes of world's act.  
It are not brought on by  
this state of the blood. May  
not most general & common  
be owing to this state  
of the blood. We shall  
have constant occasion to  
refer to these opinions  
in the course of our lec-  
tures. Contemplate these  
& either make them your  
own or entirely reject them  
I think I shall do the  
latter. (L. N. H.)

I shall next consider  
the <sup>hyperaesthesia action of the</sup> nervous system. This is  
called syn-pathy. This is  
a bond of union between all  
parts which we call visceral  
& cellular, & as  
nervous. The various parts  
of the body are associated  
by new connections.

When there are distant  
organs. They seem like  
distant sovereign states -  
we have the parts in the  
movement all concurring to  
the same function. Now  
we have an understand-  
ing of action in the parts we  
are among them is an as-  
sociation of active powers.  
This understanding - This  
too may be said of the  
eye - The iris is fixed to  
diff. shades of light - The  
eye adapts itself to various  
distances. How do we  
digest the function? We live  
the adaptation, the act  
of circulation. It must  
be that the nervous sys-  
tem. You will see that  
the nervous function con-



various organs & orders the  
to get in concert. The  
nerves funct! The stat:  
to the funct! of associ-  
ated action. Many parts  
are associated in mechan-  
ical condition, separation,  
space &c. In resp! the  
must be an asso: of the  
heart & lungs besides that  
of muscles. This goes on wh-  
ever there is or not. All  
these part and org con:  
by nerves. You may have  
all and the whole go on in  
this way -

We only know that the  
 brain does send out an  
 influence. I can know of  
 what we have said. This  
 is a violation of this dy-  
 namo law of association.  
 You will perceive the  
 sig. before the sig. of the  
 of the organ from that  
 in an act arising from  
 nervous influence.

But here we must  
 guard against too much  
 generalization. It would  
 now be that the brain is  
 only a part of the sig. in a  
 simple organ may be de-  
 fined to be sympathy. Again  
 this I wish to guard you  
 we will consider the excep-  
 to this. The brain, the  
 centre of our perception -  
 & all our actions. This now

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center near the medulla oblongata. Now if this part be injured all the parts will be disordered in function. The urine is not retained. The muscles are as sleep. This is not affected sympathy. It shows you that the heart is a power in that central position which is sent out to govern all the organs or call into action all the parts. A lesion in this part produces insensibility. This is not a case of sympathy. It is from a central motion coming to this center of act: we destroy the power which is radiated from this central upon all parts. When this part is destroyed a life entering center of the heart is injured and I know not life is in; I know not. This is not caused



by sympathy. A tumor  
may arise & press on  
a nerve. This will give  
rise to dis. below. The  
parts are dis. in function.  
This is not sympathy.  
it is nothing more than  
a cutting of the nerve  
infl. There are many  
cases of this kind. Symp.

pathy can only exist where there  
is a nervous influence. We may  
reflect lesions to any extent on  
organs without affecting  
the plant. The parts will  
have an increase of growth  
because there is an additional  
quantity of nutriment sent  
to the parts.

Sympathetic phenomena  
arise from blows & wounds  
in external parts. Pain

the acid affects the system  
sympathetically. I have at-  
tended to the heart and  
lungs and not the effects  
of sympathy. This is a law  
I wish you to recollect. This  
is a thing distinct from  
the law of sympathy.

There are parts of the  
body more readily called  
into sympathy & the parts  
of the animal economy.

Into these details we  
can't go into at present.  
The reason <sup>that I have shown</sup> modes in dis-  
is propounded to the sys-  
tem man as to be sufficient  
driving us from being but  
only <sup>one</sup>. There is another  
mode to which I will  
direct your attention. There  
is a subject on which we  
can't go in a second.

animal course. No funct:  
 is susceptible of maint: itself.  
 It is dependent on some other  
 cause. If it be insulated  
 this funct: immediately  
 ceases. It is a law of animal  
 economy that the organs  
 should be sup: by blood  
 from the heart. if this be  
 cut off they no longer  
 perform this funct: - It  
 is nec: to this existence  
 therefore that the heart  
 should exist to maint: the  
 funct: - Consequently when  
 there is a failure of the  
 act: of the heart this must  
 be a failure in the part  
 sup: there is an excess  
 growth of heart consti-  
 tution - It is excited.



The various lesions of the  
 Org. by the act. of heart.  
 Then vice take on an in-  
 flamm. action from re-  
 ceiving an out of blood  
 from a increased act. of  
 the hypertrophied heart. There  
 is a dependence of function.  
 Show that disease in this  
 way is induced.

We find the heart can  
 be moved & supplied.  
 If an infarct is created in  
 a limb - or a mucous  
 memb. be stimulated &  
 alcoholic an. an. The  
 heart will take on  
 an excited act. & will  
 throw out with great  
 energy the blood to the  
 life tissues. & in this

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Dis: will be excited in  
these dist: parts. Hence  
The heart is sympathetically  
affected bring into motion  
actions in distant parts -  
awakening in these organs.  
This last is not a direct  
symp: action. It is  
only a secondary effect.  
There are two principles  
you observed in this dis:  
action concerned. If you  
adm: opiate use by do  
you may weaken the  
inordinate act: of the  
heart you always find  
imitation in the dist:  
parts.

All the dis: tions  
have his contr: with the  
heart by being deep: and

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too much on the little  
blood. If we have been  
longer languid in action we have  
a congested state of the system.  
an oppressed debilitated state.  
as you know this is  
taken on from the cordial  
effect.

There is a danger in  
stand of this when we re-  
fer to the brain. In speaking  
of the brain I have no  
disregard to the  
medulla oblongata. Let  
us consider this for a moment.  
If you slit open the left  
ventricle of the heart the  
animal must face to  
be found. This comes  
from the blood not  
nearly so abundantly  
as can be seen to do



68.  
When a hemorrhage is ap-  
pears to a limb. This effect  
arises from the want of  
blood to stimulate the  
centres of nerves. You will  
know previous if the  
quantity of blood and  
smaller sent to this part  
the will be a want of  
action. On the other  
hand if the quantity  
be too large the will be  
a disordered func-  
tion. This is a kind of  
Hydro effect.

When the heart is pinched  
in an aneurism. The  
motion is disturbed.  
This must depend on  
sympathy. it is not  
a direct connection of the

69.  
parts will be heard. The  
muscles as you are all  
aware have been the brain  
is no longer able to sent  
out the nervous influ:-

There is a complete unchi-  
cell of nervous power.  
The funct: of the brain  
and is hindered from want-  
ing its nat: stimuli. Then  
to be motioned from a want  
of this nervous influ: ceas-  
to be effect. If there be  
a great irritation in the  
brain from any cause  
& all the parts are cold  
the motor action is  
is a universal spasm.  
This cannot be called  
an infatuation but it is  
a morbid influence com-  
municated to the

mostly from a diseased  
 state of the nervous in-  
 fluence from an excessive  
 degree of excitement. With  
 respect to the heart, it  
 is true that both should  
 act in a certain way with  
 the other. If the influ-  
 ence is shared by one on the  
 other, the number of beats is  
 a function of each in  
 turn. The heart is a cell.  
 The one will communicate  
 its motion to the other. In this  
 there is the distance  
 of the system may be  
 the consequence. This  
 by various means will  
 arise up. Constitution  
 of the system will arise and



All this is the dependence  
 of the function on and  
 of the. We see another example  
 in the respiratory function &  
 the circulatory. Super-  
 fluous is an object. In the  
 passage of the blood through  
 the lungs. The action is  
 a drawing up of the  
 blood in the right side  
 of the heart. Arteries  
 will take pure blood  
 will be accumulated in  
 the abdominal viscera. in the  
 liver &c. This will be  
 a measure of the secret  
 of bile. You will see  
 that this is not a symp-  
 tom. It is the effect  
 of the action of the  
 organ upon another.

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From these effects you may  
have effusions from the  
sinusoids. Then will  
be fullness of the ascend-  
ing aorta - the face will  
be flushed & congested  
of the brain - producing  
apoplexy or will often  
be found to depend on  
dis. of the heart.

I suppose there is some  
of the lungs - & the blood  
is not properly oxidized  
from dis. about the lungs  
then blood from not being  
re-carbonized & again return-  
ing to the heart without  
giving this. This process all  
the body is brought into  
mild action from this  
action of an unhealthy

Idiopathic is the first aff: it results from a remote cause. This is an original or primary aff: all other affections of organs arising from this are symp-  
tomatic.

Much dispute has arisen <sup>from</sup> about the existence of idiopathic & some aff: fever is dependant upon local inflm: & always being symptomatic.

Most aff: are consequential one upon another. Dis: takes place & this originally dis: in one part. several progressed dis: may take place a dis: follows until the whole system is thrown into dis: & then the work is over & we have an explosion thro' out the system.

Every dis: state is the cause of an effect, creating dis: action in many organs. Sometimes we have examples of the first aff: getting well while the



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Symptomatic aff. may go on  
it during the life of the patient.  
Entered in most cases of  
fever that takes place  
this is the secondary affection.  
You will hence see the  
use of the terms of Sympathic  
& Sympomatic are not of  
much importance. Only  
a check take strain. The  
first step is made on the  
cranium. This step is  
down to the brain. The  
eye becomes affected. The part  
drop with the 3<sup>d</sup> 4<sup>th</sup> & 5<sup>th</sup> pair  
of nerves. The impression on  
the brain is sent out and  
the nerve supplying the  
muscle, & cornea is produced.  
The action of the heart  
is increased in action. An  
increased quantity of blood  
is sent to the brain. Paral-  
ysis is brought on of one  
side. Lesion has taken

placed in the brain & is the  
immediate cause of death.  
Then you see how remote  
the first effect is from the  
last, the cause of death.

You have much about  
general & local diseases.  
General dis: consist dis: of  
the vascular system & the  
nerves. This is considered  
disease. It dis: is called  
local at confined in a  
particular part. We have  
two dis: which is universal  
it is general when confined  
or short, general disease, we  
have mentioned.

Hunter first says the  
dual: that two dis: cannot exist  
in the economy at one & the  
same time. This is not  
always correct. Two dis:  
systems may be acted on  
as the same dis: by two dis:  
causes

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existing dis: in each. But  
it would seem the two  
causes acting on the same  
organ, will not excite  
two kinds of morbid ac-  
tion. Hence you see  
Hunter's law as respects  
one or as to disease is cor-  
rect enough. This is true  
of the vasculæ, the lymphatic  
nervous tissues &

When however we have  
we call a local dis: is  
existing in a part it is  
difficult to get up a new  
disease. If another dis:  
should arise the primary will  
subsist. Two great vessels  
connected, & the placed in  
the system at the same  
time. Decomposition, Hunter's  
operations & dissection can  
not be fully recovered  
at the same time. For



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11

motion is performed with  
diff: during the process of  
digestion.

But the mind is not  
satisfied with the fact.  
It would enquire into the  
cause. The law about which  
I have been speaking has  
not been fully explained  
in the books on physiology.  
One of our most valuable  
therapeutic principles is  
involved in this law. If  
when one organ is diseased  
you can excise it: in a  
mild part less impor-  
tant to the function of life.  
This cannot always be  
effected & indeed not  
without danger at all  
times - You will not  
erase just the painless  
in mild action - you

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being bound in action of the  
heart & the by the passions.  
That you mean to do  
your declining efforts.  
Next to me or in me:  
seems to me to be the  
strongest & the proudest  
we have been speaking.

It is necessary to attain  
some definite idea of  
the terms strength, debility,  
etc., as used here. If a  
man is capable of exerting  
great muscular action  
he is said to exert great  
strength. Strength con-  
sists when applied to  
organs in its capability  
of action. Great strength  
of stomach implies  
great digestive power.  
Great strength of the heart  
would be its power to

and the blood was joined  
 & continued in all, partly  
 by the body. Breathing is  
 the active capacity to  
 perform different functions.  
 A person's muscular power  
 & yet his digestive power  
 powerful as in the place  
 during convalescence.

I wish to draw your  
 attention to the temperature.  
 I wish you to study the  
 increase of temperature to the skin.  
 These are three - the skin.  
 In the air we breathe is a  
 great development of  
 the capillary vessels - & a  
 great mass of blood. Passing  
 by the skin and into the  
 acute vessels. The heat  
 of the body is well as  
 well. The temperature of  
 the skin is the phlogistic.



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The action of the heart is  
laxest. it readily fails &  
the nervous system is easily  
excited. The heart is  
unable to pump out the  
blood this is united with  
the nervous temper. Still  
we have the bilious-temper:  
The act: of the heart is  
altered has in the phlegmatic  
they are exposed to be  
sorely dis: as both the cold  
temperaments. It is apt  
to terminate in the mal-  
encholoid habit. The  
Treatment required  
in these dif: tempers is  
diffi- and bears deple-  
tion but that the other  
do. Dr Currie has writ-  
ten the most philosophical  
work on this subject.

I will say some

thing about the vis medicatrix  
causae nature & the conserva-  
trix. You perceive it  
 is a power which has built  
 up our bodies. These constitu-  
 tions we call the living  
 phenomena. The heart  
 contracts from the stimulus  
 of blood & its action is  
 capable of continued ac-  
 tion. Variations from this  
 action arise from unna-  
 tural stimuli. Remove this  
 exciting stimuli & the heart  
 comes to act accord-  
 ing to its ac-  
 customed habit. The con-  
 servative power of a lake is to  
 keep itself undisturbed  
 by its motion - to keep its  
 surface smooth. If stones  
 are thrown & ruffle its surface,  
 it can be & will be convulsed,  
 its matter is thus owing to  
 its conservative power.  
 I should say the cause

Definiteness is  
 Necessitation is one of the  
 from the act; to hear. I've  
 that much it frequently. Still  
 it is diff: to understand its  
 meaning. The act of initiation  
 is not matter it indicates a  
 mode of existence. Hence the  
 diff: of understanding. By  
 new exist: we mean a mode  
 of existence diff: from its healthy  
 mode of active existence. How  
 shall we desc: this difference  
 from healthy action. We see  
 two remote fruits of this ac-  
 tion - of its primary source  
 we know nothing about it -  
 we know no more about it  
 than how it takes place the  
 comb: of two sub: etc. If there  
 be pain we say there is new  
 irrit: - If there be coldness  
 of part we say this is a  
 defective action in the part  
 arising from new irrit:



we say the same thing w<sup>th</sup> the  
 part is hot & painful. In  
 some states this will be accumu-  
 lations of blood & pain still  
 be from it nervous irritations.  
 By nervous irritations we mean  
 a defecting or an increase of  
 nervous influence. With either  
 defects & increased circ: in the  
 part. When there is an accumu-  
 lation of blood in a part  
 without pain &c. w<sup>th</sup> do we  
 call it? - plethora or con-  
gestion. With there is a de-  
 fect in nerv: act: in part with  
 acc: of fluid we call it conges-  
tion. You will perceive that  
 this congestion is a secondary ef-  
 fect & depends on something  
 to be referred to by the nerv-  
 ous system. With a part is  
 congested you will consider  
 it the cause of the vital  
 change in a part. It may

continues for a time & again  
 disappears, & the part regains  
 its healthy action. Yet the  
 phenomena may consist of  
 the pain, throbbing, red-  
 nection of sensibility &c  
 you say the part is inflamed.  
 You now drop or modify  
 the lemons nervous & con-  
 fusion. It might be called  
 a state of high irritation.  
 inflamm: con: fusion - nervous  
 irritation inflamm: - This may  
 be brought on by a reaction  
 of the part - perhaps the  
 very acc: of blood is in  
 part due, or derive the  
 excitability of the part that  
 inflamm: is set up. In-  
 flamm: the excremental action  
 the vol is a state of nervous  
 heat place in the part  
 are now prevented.

Just as the morbid activity of  
 sensation & vol. can be held  
 in lunatic - these you easily  
 distinguish from your healthy  
 known functions -

As the sand in the part you  
 discuss other accumulations take  
 its place - as extraneous  
 & vol. can take its place  
 erebrous & is not found as  
 heart action - You have  
 just d. After having found  
 that its nature involves  
 the part returns to a healthy  
 state: - You will perceive  
 alterations d. Just as a  
 river will after having over-  
 flowed its banks again re-  
 turns to a channel tho'  
 changed in its banks, still  
 serves it for the flow of its  
 waters -

Dynamic Diseases -



Sup: is organs that make  
 their ~~own~~ from differ-  
 ent. The duration of the  
 healthy function of organs may  
 be so gradual as not to  
 be observed - finally they  
 cease to disengage. This we  
 call organic life. In  
 any case this is a morbid  
 nutrition in the part. You  
 will observe that the increased  
 action in flow of blood &  
 in a part I shall not  
 now speak. But to sum  
 the meaning of the term is  
 absolutely necessary before  
 we set out to treat of  
 pathological diseases.

We will again speak  
 of the heart. The blood  
 which flows to the heart is  
 intended to supply the organs &

to supply a secretion at  
certain places in this organ -  
This takes place in every  
organ or at blood is conveyed.  
Anatomy has not pointed  
out how blood going to  
a part - the part: if we  
thinks for to sup. the or-  
gan & another to supply its  
secretions. They can't dis-  
tinguish the vessels at  
present. I was here find  
we know if an organ  
seems an increased sup:  
of blood, its secretions and  
are increased. The same  
change takes place if the  
supply be smaller than  
normal. The nervous  
influence in the part is  
either too great or too  
small in the organ. Now  
frequently I imagine, is this one

consequences of morbid secretion in the part. If the part has become vitiated in its function by inflammation it will be out of order in its action. I next call your attention to Spasm. This is a condition of the parts. It is a disease of the muscular fibres of a part. It is a law of muscular fibres to relax & contract. It is the law of the heart to contract & relax. Now as long as the muscular fibres continue to act in a manner in accordance to their accustomed function the part is in a healthy condition. But when the contractions are



morbidly & in some cases con-  
 dition to the end of the wild and  
 call it spasms. In some in-  
 stances violent spasms are  
 times permanent or in let-  
 a man. This we call Tonic  
Spasm. These are nervous  
 dis: connected with spasmot-  
 ic actions. This we say  
 is one of nervous debility.  
 It may have a local cause  
 giving rise to his general  
 disorder.

To be a physician in the actual  
 acceptation of the word it becomes us  
 to consider further the morbid ac-  
 tions of the animal machine

You will readily perceive that  
 we should labour under difficulties  
 were we to go on to consider par-  
 ticular diseases before we are  
 completely acquainted with

Some general principles. On this subject I would wish you to think, even as dull & cloudy as the day is. One of the best modes of studying a subject is to be obliged to make others understand it. He, who undertakes to teach will always himself be the greater learner. Make this subject a matter of thought for yourselves. This is a matter yet sub judice.

This subject includes, as classification of the Protonia medica the reason may use one medicine of a particular class & another a different of the same class each being governed in his prescription by the same principles & each will obtain the same result. It is this generalization of medicines &

diseases to which I direct your at-  
tention.

It is now all diseases present  
us in their origin & progress with  
a peculiar kind of morbid  
organization called inflammatory  
action - To relieve this <sup>my</sup> organization  
we must use means to subvert

this inflammatory action -

We must first endeavour to moderate  
it - You will then perceive with  
ease the reality that exists in  
what I have said. You will un-  
derstand the utility of consid-  
ering the means that are in  
our reach - No matter where  
this inflammatory organization ex-  
ists whether thro' out the system  
or only in a particular part.

This subject, however does  
not admit of a severe classi-



ification. I believe subjects are often made obscure by an attempt in the commencement at a nice classification. It is always necessary for us to take a birds eye view before we can attempt to methodize upon a subject. This I have all along avoided.

We will now consider the means used for reducing this inflammatory reaction. That which we meet with in most cases of inflammatory fever.

In the first place all active life & its functions depend on certain stimuli. They are these, light, caloric, food, the atmosphere, the air which surrounds us & constantly acts upon us. It is on these & a variety of others

which keeps up & in play this active principle we call life. When any one of these or all together act inordinately disease in some one of our organs will be developed. When you find disease set up in the body, don't stop to enquire how it was got up. The first thing to which you will direct your attention is, is the en-  
 quiring of what keeps up this active life. Look to the light, the sound food drink, &c. You must diminish the action of the heart - re-  
 strain exercise - you must sub-  
 mit your patients to a depriva-  
tion of all these natural  
 stimuli. if you would wish  
 to reduce inflammatory or-  
 gans, let it be situated where  
 ever it may.

The second mode of reduction is by

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Abstraction - This is effected by taking  
something from the blood - The con-  
tention of which would keep  
up this forced organization - In the  
first instant something is with-  
held in the latter something  
is to be taken away - Abstrac-  
tion is effected by bloodletting -  
You may take it either out of  
the veins, arteries, the capillaries  
When the part is within our  
reach we can effect this object  
by topical bloodletting by means  
of leechs, cups &c, provided there  
be not much general excitement  
When the inflammatory organization  
is general - the brain engaged  
& when it is radiating it in-



flashed on the system. like the  
lightening now dancing from  
cloud to cloud. & then darting  
upon the earth with dreadful  
fury.

Bloodletting is not the only  
mode of abstraction. You must  
abstract the caloric from the  
body. I now speak of cold  
applications. I now speak of  
withdrawing the caloric, not de-  
priving the body of it. Another  
is to remove from the segmen-  
tary surface every thing which  
can irritate it, as clothing, ban-  
dages &c. The mucous surface  
is of more importance to be  
considered than the segmen-  
tary ligament.

I speak of removing the irritating matter which may be lying in the intestinal canal & stomach. This if left to remain, may be the cause of keeping up the inflammatory organs through out the system. The secretions matter which the natural functions have deposited there, must always be removed. This when the system is in a healthy state never excites diseased action, but when it is labouring under any affection it becomes an additional irritant.

The next mode of subduing this inflammatory organs is by Emetics - That is pouring upon the mouth an skin, water either cold or warm

+ mingling it with some mucilaginous matter. You may think this a very inefficient means, but as you go out to practice for yourself you will observe Salts to be of the greatest utility.

The absorption of mixed fluids into the blood is of immense importance. This will produce the effect which I am proposing by being admitted into the blood. & thereby diminishing the inflammation.

The next are the refrigerents. These are regulable acids. The neutral salts, as nitrate of potash in dilute solution & acids taken largely into the body will tend to diminish the heat of the body. No matter what you may hear respecting these



of...

substances acting as irritants  
on the external surfaces ex-  
citing inflammation. All such  
ideas I cast to the winds.  
I know well by observation &  
experience you may in this way  
refrigerate the system & lower the  
inflammatory excitement. He  
who merely looks at the effects  
of the remedies on the eye or  
the tongue, or the external skin &c  
may delight you by his theo-  
retical reasoning - by his a priori  
deductions but rather, much  
rather let us take observation &  
experience for our guides & we will  
find these articles of great &  
astounding importance.

You will observe that the

consideration of these means now  
will be of service to us when we  
come to treat of particular diseases, as  
pleurisy &c. - It will relieve us  
from running into minute  
details. Thus if there be inflam-  
mation of the brain, the abstractions  
will be imperiously called for.  
In inflam: of the pleura refriger-  
ants will be indicated &c.

Well I know some of you  
are thinking that I have  
neglected or forgotten the most  
material part of our means.  
There are secretants - They  
are they which augment se-  
cretion in various parts &  
organs. You will observe as  
you increase secretion or ex-  
halation you lessen the excited  
system. for example if you

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promote the secretion of the urine  
If, if you do not give water  
to you diminish so much  
the sanguineous mass. By  
Secernants are meant cathar-  
tics, diaphoretics, sialagogues,  
diuretic &c. They are deple-  
tories. They are abstractants -  
but their action is complicated  
while they are bringing about  
a depletory effect they are  
producing others. You may  
excite the intestinal canal  
by cathartics, to throw out  
an increased quantity of secre-  
tion. but in doing this they will  
bring on an excitement thro' out  
the system. This is an irritation  
& not an effect of abstract-



tion to lower the diseased excitement. They augment the excitement before they allay the increased morbid excitement.

Now it will be necessary for you to use your depletory means first. Some suppose by lowering the excitement by abstracting blood diseased action may be arrested. but this can seldom be effected. To effect this you must increase the secretion from the secreting organs.

Now when you excite an organ to increased secretion you are restoring which before was not in existence. Now secretory sympathy is only a morbid association. If you can restore to any one organ its healthy action it will it will then

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carry its healthy influences into  
all the organs affected. This  
is one of the happy effects of  
Secernancy. This is a kind  
of circulative action. This  
communicate its effects from or-  
gan to organ all over the sys-  
tem.

I attach great importance  
to this subject. Though I  
am compelled to hasten  
through with it, but I wish  
you to mind on this subject  
for yourselves.

We come now to that  
of that class of circulative,  
purifying called Secernancy. This  
is the most valuable of all the  
functions of the system. It is the  
most important of all the  
functions of the system.

began to a healthy state  
 You were off the house  
 as to your sick mother  
 by husband or the people  
 By these you are joined  
 the action of the system.  
 You are the opposite of  
 your own nature, a broken  
 heart - when we are  
 truly for a time of  
 the true nature of the  
 out a reference to his  
 your own nature, the system  
 effect - from which for  
 I am - it is your own  
 to be done.

Now he is as  
 a part of his nature  
 and his own nature  
 is a part of his nature  
 and his own nature  
 is a part of his nature



The following is a list of  
 things I had and visited  
 by the two of us in an  
 afternoon with his own  
 things. He has his  
 house on the way and  
 you will see the  
 most interesting things  
 in the country. The  
 house is a small one  
 but it is not.

Lastly I have your  
 letter to me. They  
 are all the same. The  
 first one is the same.  
 The second one is the same.  
 The third one is the same.  
 The fourth one is the same.  
 The fifth one is the same.  
 The sixth one is the same.  
 The seventh one is the same.  
 The eighth one is the same.  
 The ninth one is the same.  
 The tenth one is the same.



organs. In all animals, there is a sac called the stomach & an intestinal canal & with them there is associated the lobular organs which are necessary to the process of digestion & when they are in a morbid state the digest. funct. are disturbed. Thus we have the masticatory organs - lined by a mucous memb. & thus supplied with nerves possessed of a specific sensibility as the 2<sup>d</sup> branch of the 3<sup>d</sup> pair of nerves. Next we have deglutition. The muscles concerned in this process are various & complicated. The glossopharyngeal nerves supply these parts. The next is transmission. The oesophagus is concerned principally in this. Supplied



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The aorta: artery, which terminates  
in vena cava. There are  
few aff. of this organ. & these  
principally concern the surface  
The next process it takes  
place is Digestion. Digest:  
only partly takes place in  
the stomach. The food  
undergoes some change in  
this organ - called the heat  
of digest. This organ has a  
specific sensibility. It ex-  
cites the desire for food. It  
is principally situated about  
the cardiac orifice. This we  
is the pancreas. Supplied  
with blood by the coronary  
arteries. The food is lodged  
in the cardiac orifice. If as  
fast as it is <sup>into the</sup> consumed it is  
deposited in the pyloric portion  
& hence transmitted into  
the duodenum. This process

of transformation exists in  
 the hepatic plexus & this  
 part of the stomach is sup-  
 plied by a different artery.  
 Now how is the superfluous  
 water part out? I believe  
 it is absorbed by the veins  
 & thence conveyed into  
 the blood. It is this which  
 conveys the peculiar sweet  
 of asparagus into the urine  
 almost pure. After it is  
 taken, were this water suffered  
 to remain in the stomach the  
 fleshy liquor would be  
 too much diluted. Digestion  
 would hardly proceed on the  
 melted mass of the substance  
 in the stomach - it is melted  
 down like a snow-ball  
 in the sun. This is an  
 example of the conservation  
 of the system.

The pylorus expands & ad-  
mits the chyme to pass this  
to the duod. It is then  
formed into chyle by the  
action of the bile & the pancreatic  
juices. After the secre-  
tion of the ~~ad~~ glands from the  
duodenum, it will be excited  
& this excites the liver & pan-  
creas. These parts are sup-  
plied with nerves from the hepatic  
& colic plexus. This is called  
duodenal digestion. Food  
comes to the 12th duo small  
intestines - In this the chyle  
is completed & its nutritive  
particles are absorbed. These  
parts are sup: from the  
mesenteric plexus & with  
blood by the mesenteric ar-  
teries. We are next brought  
to the great intestine - the  
the process of fecalitation



-after peace - And the re-  
 crenational matter is  
 logic in mind - It is re-  
 lained here for some per-  
 ject - The accumulation  
 here act as excitement - we  
 keep up active life - Next  
 we come to be rectified - We  
 have beside a group of the  
 sympathetic nerves and group  
 by nerves from the spinal  
 column - And we have  
 nerves of animals of sensi-  
 bility - in the other portions  
 they are principally regions  
 of organic life possessing  
 little or no sensibility - That  
 sensibility should be more  
 obvious it is need: to excite  
 the individual to the ex-  
 citation of forces &c.

These parts never perform  
 their funct: without being in  
 a excited state. There is ner-  
 vous & sanguineous inflow into  
 them. This is effected by the  
 stimulus lying on the mus-  
 cular surface. If food is  
 long denied these organs be-  
 come excited then a desire -  
 When the article is at length  
 brought to it this is a dis-  
 position to an excited or-  
 ganism. The brain & heart  
 are excited. There is high  
 exertion in these parts  
 while it is diminished in  
 other parts. For the pur-  
 pose of transforming the  
 food this is necessary.  
 The brain & heart act both  
 stimulated & the amount of

gas due food is thrown out  
It is true: I presume in  
many instances to stimulate  
the stomach by food to

keep up on exert in the  
act of digestion - It is a  
mistaken notion in mod-  
ern pathology is sup-  
erfluous can be improved  
by abstinence - This same  
excited organ is howev-  
er aided in the lower parts  
of the intestines - In re-  
fuge, in the ileum - &  
the rectum seems to be  
connected to the rectum to the  
discharge of the fecal  
matter.

The organ is so part: worthy  
of our at: as the stomach.  
Its relations with the organs is



various - Its dependent organs  
 are the liver, the pancreas, the  
 duodenum - You will have mind  
 a little the epiploica entered - This  
 includes the liver, spleen, duodenum,  
 pancreas - These are connected by a  
 community of serous membrane by  
 this they are connected together.  
 These I have named, and the  
 associated organs of the stomach  
 Continuous sympathy of these  
 has often been observed. They  
 are also connected by a mu-  
 cous membrane with the exception  
 of <sup>the</sup> ~~the~~ spleen. These are  
 connected in another way - They  
 are all supplied by the same  
 artery - They are all supplied  
 with blood from the artery - it  
 branches into a no: of branches  
 You see how intimately these  
 parts are connected. But  
 they are also connected by nerves

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of the nervous system. They are  
principally supplied by the  
great sympathetic & the pneumo-  
gastric nerves. There is a  
plexus around the cardiac  
artery which seems particularly  
to be labile in an under-  
standing between these or-  
gans. Hence you see how  
easily these organs may be  
sympathetically affected.  
With respect to abdominal viscera  
which are excited in one organ  
it is transmitted by the gan-  
glion in its immediate neigh-  
borhood to other organs.

You will find where the  
cardiac portion is supplied by the  
the sympathetic trunk - the pyloric  
extremity receives ~~the~~ <sup>the</sup> ~~trunk~~ <sup>trunk</sup> from  
the cardiac plexus. Hence it is  
the "liver" knows where the chyme  
is passing from one portion of

the stomach to the others. The  
 liver is associated with the  
 other organs I have named.  
 I refer now to the peculiar  
 circulation denominated  
 the portal. The blood con-  
 cerned in this collected from  
 all the abdominal viscera  
 with the exception of the liv-  
 er. to wh it is sent. The gall  
 bladder sends its blood into  
 his portion of the circulation.  
 According to my recollection  
 the blood of the liver is sent  
 thro' the hepatic vein to the  
 vena cava. but that of the  
 gall bladder does not. all  
 the blood from these viscera  
 unite in a short trunk called  
 the vena portae. This res-  
 embles an artery, w<sup>ch</sup> ram-  
 ifies thro' the liver. Thus  
 you have in the liver the  
 same figure of the relative



ating, the veins & of the veins  
 work. Hence you have  
 three kinds of blood in  
 the liver.

Now you will see that  
 the small intest. the liver &  
 are connected by the veins  
 of the liver. Hence there is this  
 peculiar connection. So  
 much for the immediate  
 con: of these parts.

The next will consid: the  
 remote con: of the stomach.  
 Look at these with con:  
 the stomach, the liver &  
 this connect: is by the veins  
 of the stomach - the portal, the  
 great vein of the instrument  
 of the brain, connect: directly  
 with the stomach. The great  
 vein of the liver to the organs of  
 the supply. ~~the liver~~  
 hard is said there is

specifically in emetic in laryngeal  
tracheo & pharyngeal affections  
in dis: of stomach we find  
in respiration aff: acting  
on the lungs. By means of the  
8th pair of nerves we go  
in part to supply the lungs  
etc. Now when the stomach  
is aff: - the diaphragm acts  
on our stomach up by means  
of the nerves & gives rise  
to dyspnoea. Hence we can  
readily trace a connection  
between indigestion &  
And this may take place  
in a contrary manner, but  
may have an action  
coming to the brain & thus be  
affected by his organs or other  
last mentioned dis: but  
have the cardiac plexus of  
the <sup>on paper</sup> ~~sympathetic~~ nerves with

forms a con: with the heart  
 & stomach & we again have  
 them connected by means  
 of two sympl: nerves. And  
 you see the heart is easily  
 excited in affections of the  
 stomach. & thus the amount  
 of blood used in the ab:  
 dent in the stomach. This  
 also takes place when the  
 process of digestion is going  
 on. The amount of blood  
 sent out is greater than  
 usual. It is seen to be  
 a law of the human econ:  
 om: that when you work  
 in or for the body the organs  
 will raise as excitement  
 in what is called the  
 work the cerebral portion  
 of the nervous system in  
 the ad - Ar. h - this you  
 see in the stomach



enough - The brain you  
 wish should will be excels  
 but nervous & sanguin-  
 ous - organs for to get  
 the two the cons - & used  
 of the other. The brain is  
 dominated & is digested &  
 the quantity of blood sent  
 to the head than usual.  
 It is this that gives rise to  
 that comes we come to  
 after taking a hearty  
 meal, as when you come  
 here after dinner -

The stomach is a  
 associated with the kidneys  
 & the pelvis by the same  
 lines of nerves. The great  
 the impurities. Thus the  
 from a very weak and  
 influenced upon these organs.

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forms. But the stomach has  
branches from the inter-  
costals & from sup: the  
stomach & abom: viscera  
& the skin for know is  
sup: in these intercostal  
cat nerves. Hence you  
see how air: of the stomach  
and easily excited in  
the skin & visceral.

There is nothing of greater value to  
you than the body we now are  
engaged in. Yesterday we found  
the stomach was formed by  
the nervous system from all  
parts of the body. It is intimately  
connected with the abom: viscera  
the brain & heart & sometimes  
call in primitive organs &  
the stomach is secondary  
organs. They are not yet formed  
especially the brain, but it  
is the commander which  
all our other organs like an

army which has been raised up  
by recruiting officers. These are but  
subordinates as the order comes to  
the brain, & where the army is  
congregated there is appointed a  
general. Hence the brain tho'  
the last organ built up in the  
animal economy, yet it is  
upon itself the command of the  
whole. The action of the brain  
& heart is such: to the heart  
of all our organs. The eye re-  
ceives the stimulus of light. This  
is by means of the brain & the  
whole system may be excited.  
The same may be said of  
the act. of the acoustic nerves.  
The ear is a suscep-  
tible in the skin is be-  
lieved upon by heat. yet a  
maternal or things may  
not exert any infl. on our  
bodies. The lung have a  
susceptibility to the act. of ex-  
posed agents. The skin is  
a susceptible for nitrogen  
nitrogen oxide produces and of.



In all this, the sensibility is partial.

Now you would conclude a priori, that there must be some grand centers of excitability. You will be led to the conclusion that all active life is a stage of excitement. Every part of the body is subjected to the excitement of external agents. The mucous membrane is endowed, as to the susceptibility of many agents. Hence arises the great dignity & power of the stomach. This gives it a station in the animal economy not the heart & the brain, only second in importance with them.

The stomach has not the same sensibility to every external agent. I don't know that it can be affected by light. Odors appear to act on it as more effecting the schizoidness

membranes. Of all the parts of  
 the body the stomach is acted  
 on by the greatest No. of a-  
 gents. It is it on the main-  
 taining of life exert the  
 influence. It is the last of  
 the body; we destroy life -  
 may exert the influence -  
 it connects with this is the  
 act: of cert: agents - in-  
 volved to life - It is a life  
 suspended in some of the  
 tissues that are so richly  
 The eye only to light, the  
 ear to sound - the skin  
 to caloric while the stomach  
 is excited by many agents -  
 Man is endowed with the  
 power of living in every climate  
 & country - in every situation -  
 for maintaining life, finds on  
 the surface of the earth soil:  
 we exercise in him the action  
 of life. Yet there are many  
 agents in life which are

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not capable of sustaining that  
actions. You will observe  
that the sub. we are free to  
the orderances of life are  
after combined or associated  
with the noxious substances.  
Innocuous & noxious sub.  
under a certain use seem to  
be nearly the same things. The  
the system. may be poison-  
ed by feast & a fair. caused  
by arsenic & anti-mony-  
the object is to study facts  
& not largely speculate.

Some persons look at the  
tomato as excited by tomato  
agents - that it is necessary  
in concept of being thrown into  
a state of dis- - that we  
must make it the sub.  
of our life if we would have  
all the organs in a state  
of health - that we must  
avoid taking many sub.  
into the system. This  
is carrying the thing too



fact. The God of Nature has  
 not created this in the way.  
 Every organ he has fitted to  
 its natural stimulus. It  
 is the law of the animal  
 economy that every organ  
 of the stomach shall be stim-  
 ulated. The appetite which ex-  
 cites us to take these sub-  
 stances into the stomach proves the  
 contrary of the views of these  
 modern pathologists. It  
 is the young man who has never  
 traveled beyond the precincts  
 of the city - whose muscles  
 have not been excited by  
 exercise - more or less able  
 to bear fatigue than he  
 who has been reared in the  
 country & long habituated  
 to exercise.

The stomach is the or-  
 gan of digestion - & the  
 of stimulation <sup>or excitement</sup> keeping in  
 action the heart & brain &  
 preparing nutriment for all uses.

Dyspepsia or Indigestion.

We come now to consider some of the morbid states of the stomach. It is implicated in many disorders. We cannot consider it in respect to all the disorders to which it is liable. We must look about it as the proper & original function of the stomach. To this morbid state, we direct at present our attention. If an inflamed action is excited in the stomach the function is destroyed or impaired. The action of the heart is excited - This we should not call indigestion, or dyspepsia. On this subject think for yourselves. I heard in Rome many men's digestion may be temporarily disordered & you will see how many persons will be excluded from what is termed dyspepsia. This seems to be nothing more than an impaired state of the organic functions arising

from some organic dis- These  
 reasons have made the term  
 dyspepsia perplexing to the  
 student of Medicine. If you  
 tell him if it is not an  
 infl. etc? he will desire to  
 know the approximate cause -  
 while we recognize the influence  
 of gastro-enteritis - and lived to  
 we must consider Dyspepsia  
 as a dis- distinct from either  
 of these. I think post mortem  
 examination could present  
 us with no lesions in any  
 organs. This I think constitutes  
Dyspepsia. It is an idiopathic  
 affection - It is a disease wh  
 begins us in the mind: period  
 of life. About age 15 or 16 years  
 generally age after puberty -  
 & continues until the 33 or  
 36 years. A dis- wh endures  
 about 10 years. wh I mean  
 to say. It means individ:  
 - especially in city & those em



in the higher walks of life  
 at from the 16 to the 36 years  
 exposed to the most horrid  
 symptoms - & if at any  
 time the stomach &c &c be  
 examined it wd exhibit  
 no traces of organic lesion.

Now is it me: for me  
 to enumer. the symptoms -  
 might I not refer you  
 to your own experience. Yet  
 as you may not all  
 have experienced this mal-  
 adge I will relate some  
 of the symptoms w<sup>ch</sup> char.  
 this idiopathic malady.  
 It is but a paroxysmal  
 dis. - This violent raging &  
 abating I am led to think  
 arises without any cause  
 either from indigestible food  
 or any thing else. This is a  
 something (I can't call  
 a fact) w<sup>ch</sup> you now paint

complains of being miserable, if you tell him he has been transgressing a time ago. He will not trust you for he knows he has not. The paroxysm has come on frequently come on during 15 years let the patient do as he will. Hence I infer that this is not a dis: essence de erro. but being purgative of acid.

Symptoms - Heart burn - a corroding - a feeling of cold in the stomach - sometimes a feeling of acidity. a sense of distention - a desire for something stimulant. A feeling as if the stomach contained a hard body, as marbles - oppressing & weighing it down. A ravenous

appetite. It is a mistake  
 also to say a loss of ap-  
 petite is a symptom of  
 Dyspepsia. There is some-  
 times nausea & even  
 vomiting but this seldom  
 occurs. There is flatulen-  
 cy - This arises from the  
 food not being properly  
 digested throwing out gases.  
 Dr. Chyme & chyle is formed  
 in many instances but is of  
 unhealthy kind. This may  
 give rise to the symptom  
 I have mentioned. There  
 is costiveness of the bowels -  
 sometimes light coloured  
 & again dark coloured  
 stools - Sometimes diarrhea  
 &c. - All this is indica-  
 tion of a deranged state  
 of the liver. This deranged  
 state of the liver & origi-



to be a consequent on &  
 connection with the dis-  
 There is occasionally great  
 distention of abdomen. This  
 often rapidly passes off-  
 arises I sup: from over-  
 ingorged state of the por-  
 tae vis: - Generally tender-  
 ness of epigastrium. Urine  
 often affected. Skin dry-  
 hands & feet cold. Per-  
 operation much diminished  
 Skin & humors - face pale -  
 eyes sunken - cheek bones  
 protruding - In the mouth  
 a sand taste. This I cannot  
 explain unless it be from  
 a sympathy of this organ  
 with the stomach. The  
 mouth is apt to be dry-  
 often thirst. The heart  
 is affected - pulse larger

comparatively empty - frequent  
 & fluttering often - Often  
 not more frequent than  
 natural - Seldom or  
 never indicates febrile  
 or inflammatory action. The  
 expression of the eye is  
 dull. Pupils dilatant -  
 A twitching of the eye  
 lids. In the muscles few  
 or less tendons - Irrita-  
 tion of purpose & volition -  
 fullness of. & in some  
 temper: hypochondriasis -  
 When these symptoms are  
 some position occurs at  
 times a maximum & passes  
 off the individual has  
 had a paroxysm. Of  
 the dis: is connected with  
 dis: of liver, indigestion  
 and the other imperfect

If the dis: is not symptomatic - after the pain & you know is a great buoyancy of both body & mental functions - he feels as if he had escaped from a thousand chains - he feels as Gulliver feels when he escaped from the Lilliputians.

The dis: is general too - & all day, & the higher temperature most liable to it.

It is said to be the malady of men of genius - that in our affections in this dis: there is some consolation to cheer us.

Causes - Or undertake to indicate to you even what has been said to give rise to this malady will take up too much of your time - Many causes produce - Many causes



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disorders the digestion. - There is  
a cause in the United States  
which exerts a great influence  
in producing the disorder. - St. Louis  
visions, & stimulating articles  
of diet & drink - gastric  
depletion & stimulation. The  
latter is one of the remote  
causes of dyspepsia. - Not that  
every person who lives well  
becomes dyspeptic but this  
disorder is oftentimes to be  
seen in persons who eat  
stimulating diet &  
drink bring on an inflamma-  
tion of the stomach & the  
system & may give rise  
to inflammation of the  
mucous membrane of the  
stomach. But as  
I said yesterday inflamma-  
tion does not actually  
constitute indigestion. - But  
we may have an inflamma-  
tion of the stomach but this is not

more than chronic gastritis -  
 Did this alone const: indiges-  
 tion why do we at all use  
 the term dyspeptics. I don't  
 think it to name the mat:  
 in this light is of any import-  
 ance. It is difficult to distin-  
 guish from inflam: - If we  
 admit dysp: to consist: in dif-  
 ferent degrees of cor: or inflam:  
 we will frequently be at a loss.  
 I believe dyspeptia may  
 exist & does without inflam:  
 yet it may occur with this  
 state. The cause I have  
 mentioned in dyspeptic affi-  
 may give rise to inflam:  
 action - I wish you to con-  
 sider whether there are two  
 distinct maladies? Many  
 diseases may be connected  
 with inflammation yet not  
 the point shown here to be  
 dependent on inflam: - If  
 this kind is hysterical - of in

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Mr. Dr. H: is necessary

2<sup>d</sup> Articles of diet & drink  
which are not stimulant  
but are indispensable -  
we live in the stomach & our  
produced chemical change  
in - One of these is short  
cakes or hot biscuit. These  
are differently acted on by  
the gastric juices. I have  
known men who called  
themselves half horse half  
alligator fellow who said  
they could not stand  
these -

3<sup>d</sup> The use of stimulating  
drinks as tea, coffee, & brandy  
spirits - I am convinced  
that tea is one of the causes  
of dyspepsia. It weakens the  
nerves & energy - it influences  
entirely the moral  
& physical man. It increases



The mental & corporeal func-  
 tions - It does not degrade the  
 man, but refines his feelings  
 It extends conversation &  
 increases man's fitness for  
 the social state. Black  
 tea is less stimulating -  
 but this stimulation of  
 what I speak is attended with  
 a decrease of this exalted  
 state - & will leave the  
 person in an irritated  
 state - This does not depend  
 on the circulation. It is  
 an inefficiency of all the  
 organs & functions. I believe  
 that the use of these beverages  
 in students & in females  
 are readily carried to excess -  
 In the Lymphatic tem-  
 perament it is not so  
 injurious in its effects. Coffee  
 is less so than tea -

Spirituous drinks so frequently produce inflammation of the stomach, but this is not always its effect. This is evident from the difficulty with which intemperate habits bear dispepsis. Yet most certainly this is one of the most powerful producers of that inflammation, & as we are inclined to the kind of dyspepsia

It is cause is tobacco. In Holland I have been told by a person that a person cannot get along without smoking. The Netherlands & you are aware the country is very low & damp, & that which is the situation the people are generally diseased

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Cophagmatic - By such persons  
sons & slaves may be used  
with impunity. I have  
heard it said of a company  
of Dutch soldiers who had  
to light their pipes before  
he made the charge &  
made it with the pipes in  
their mouths. The injuri-  
ous effects of tobacco: How  
arise from its increasing the  
flow of solives. This is not  
the need w<sup>h</sup> sup<sup>r</sup> the diges-  
tive function. The true me-  
di operandi is the nervous  
irritation induced in the  
system w<sup>h</sup> gives rise to its  
injurious effect & in-creases  
the digestive funct<sup>n</sup>. The habit  
of smoking in young men  
I think gives rise to the  
malady I have been  
speaking of.



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In the 5<sup>th</sup> period Sideric  
habits. Exercise is need to  
all our functions. Running  
is said to be the best way  
of taking blood. The ab-  
domen is agitated. The  
nephrons are actively excited  
etc.

Atmospheric respiration -  
The atmosphere is cold & dense  
is apt to produce a fit  
of dyspnea. The function of  
the skin is affected by it &  
the blood the nerves the  
stomach & the intestinal  
organs are affected.

Y<sup>th</sup> - Malaria. I can  
show you this - but we  
presume there is something  
thrown out from the earth  
in during summer & au-  
tumn. In places where  
malaria is most abundant

+ fevers are frequent dys-  
pnea is very common. I  
have seen persons who were  
long affected with this mal-  
ady, become free of it when  
removing to situations where  
were exempt from mias-  
matics.

2d - Great muscular  
& mental exertion. When  
the muscular system acts, con-  
sequently the blood is directed  
to them from the internal  
organs. The nervous energy  
is increased in the muscles  
system, while it is de-  
tracted from the stomach &  
Lungs of sleep & the usual  
rest &c. Hence you see  
a peculiar kind of ex-  
ercise is always necessary in  
feverish and patient who so  
has arisen from want of it

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9<sup>th</sup>. The passions - as first  
+ anxiety. Such affections  
seem to affect the stomach  
& in a dyspeptic habit will  
bring on a paroxysm of  
dyspepsia - & in many in-  
stances mislead it.

10<sup>th</sup> Intense application of  
the mind - It seems to draw  
the nervous influence from  
the stomach - this is connected  
generally with voluntary  
habit - There is in such  
persons a digestive, eructa-  
ile action of the lower bowels  
in the first place which may  
travel up to the stomach  
& affect it.

In civilized life we  
find all the cause con-  
nected. I have called this  
a disease peculiar to cul-



143

Unacad Society. It is here  
we met with finest rati-  
on, brandy, wine. The  
finest & most trained  
sensibilities. The noblest ef-  
fects of the mind are here  
here found.

In our last lecture we came  
to the con: that this dis: is  
closely connectd with the Ner-  
ous system & that these im-  
pressions are made in the  
Stomach. Not that the  
Stomach is always primari-  
ly acted upon. It may be  
secondarily affected -

Now when you receive  
a paroxysm of this malady  
you will find various parts  
affected - various symptoms  
will be developed during the  
Paroxysm - & disappear with  
it. Sometimes it happens some

organ remove from the stomach  
 from a nat: debility or dis: -  
 may still make it liable  
 to disordered funct: - during  
 the paroxysm. The funct: of  
 the antra of the stomach will  
 be transmitted to this in-  
 ginning organ & it will be  
 violently excited - & when  
 the organ is repeatedly acted  
 on in this way, permanent  
 disease may thus be sym-  
 ptomatically developed. Dys-  
 pepsia in itself is not an  
 mortal dis: - but it may  
 or involve other organs so  
 as to be the primary but  
 not the ultimate cause of  
 death.

When one have dys-  
 in a well balanced con-  
 stitutions one can impair

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The chances of being dis-  
trayed by it as when it happens  
in persons with weak or  
tender - &c.

I will enumerate the  
dis: growing out of this  
malady. We come now  
to the application of the  
manner of the propagation  
of disease, formerly treated  
of by me - I will now  
apply those principles.

Let us look to the  
lower bowels. The pancreas,  
liver, spleen &c. Now you  
will understand how the  
Stom: can affect the bow-  
els & liver - first by being  
lined by a similar mem-  
brane - it is bound to the  
just as the skin is con-  
-tinuous in the stomach is



146.

In this case com. to the  
lomb - & consolidation is  
brought on & will re-  
main after the storm has  
subsidised to healthy action.  
In the same manner well  
the liver become torpid &  
active - It may recover  
from this state when the  
primary cause is removed.  
but after it will run  
into tubercles. If the stom-  
ach suffers from gastritis  
the liver may suffer  
from inflammation - may  
suppurate - may become  
indurated. During this  
state we may sometimes be  
led to think we stand  
from the first mistake  
and diagnostic symptoms

I have intimated that  
 the primary organs is af-  
 fected in dyspeptic dis-  
 ease. It may be increased into  
 quantity - calculus de-  
 veloped may take place -  
 diseases may be brought  
 on from disordered di-  
 gestion. This secondary  
 affect: needs often demand  
 our most attention. There  
 are pains aff: w<sup>ch</sup> demand  
 our attention. When your  
 patient has dyspe: you  
 should always direct your  
 att: to these organs &c.

In the upper portion  
 of the alimentary system  
 you have the oesophagus  
 larynx & mouth. These  
 are found in the  
 thorax. Strictly esoph-

Some: not with - This  
 is in some cases &  
 traceable to dyspepsia.  
 But with respect to the  
 pharynx it is often se-  
 riously affected in this dis-  
 ease. An inflammation will be de-  
 veloped there. There will  
 be a dysphagia. There will  
 be an organic enlarge-  
 ment of the tonsils, some-  
 times terminating in ul-  
 ceration. In the mouth  
 we have various aff-  
 ections - The throat is  
 often found to be rap-  
 idly from this disease.  
 I have known a person  
 lose weight in one year  
 who had during that time  
 been afflicted with  
 dyspepsia. The 2 brackets



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8th pair of nerve cords  
affected - This causes you  
to act on the part of the  
acting on the part of the  
mouth. We have also ul-  
cers in the mouth & the  
larynx - These ulcers are  
usually, granular, burrow-  
ing & by force - The healthy  
membrane being the por-  
tion - The natural of these  
best app: to such ulcers -

You are all aware of  
the dis: Anomalous dys-  
pnoea consumption - This  
is developed in the lungs  
an inflam: called Chronic  
bronchitis - we have, how-  
ever - & tubercular phthisis  
leading on to hectic fever -  
Typhoid may accompany  
any one of these disorders

12  
I have known persons  
long affected with cough  
immediately relieved, when  
the primary aff: was  
removed. In angina, the  
dis: you sh<sup>d</sup> always  
ascertain the char: its  
extent - the murmurs  
thrust and c.

The maladies of the  
heart are numerous -  
They are funct: & organ:  
ic. In the first the  
is great palpitation -  
may exist for a long  
time in the heart. These  
ft arise from sympathy  
with the stomach. We have  
hypertrophy of the organ  
ossification &c of the valves  
An organic dis: may be

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developed from symmetrical  
the action. as from  
by starting with disordered  
digestion.

The eye overgrows with  
the stomach - Sufferers  
of scurvy from dyspepsia  
disturbances - it may occur  
in one or both. The conjunctiva  
of assumes a chronic  
inflammation from impaired  
digestion - about the orbit  
of the eye - there is an acute  
inflammation above one eye. & often  
over the whole head - This is  
the same as the head ache -  
This is essentially the dis-  
turbance of digestion - The patient  
has disturbed dreams - &  
awakes up & does not know  
where he was a sleep  
or not - he awakes in  
the morning - The pain



152.

is severe - can't get up - in the evening takes a cup of tea - afterwards feels well previously he had vomited. Often it comes on in the evening - vomiting of an acid mat: relieves him - he goes to bed - in the morning awakes & feels well - This is purely a neuralytic dis: - a derivative malady of the disorder disposition -

We come now to dis: of the brain brought on by Ang/sup/sia. A hemiplegic epilepsy - Hypochondria - Hysteria &c. I have seen epilepsys come on in first of great intellectual function. I have seen hemiplegia of an inveterate

Latin kind rising from  
this dis- This comes on in  
persons of nervous temper.  
There will be a number  
of the one side - it does  
amount to complete hemi-  
plegia - both as to  
senses - in what the person  
will talk to you but  
will take you for an  
other person - he doubt-  
less thinks you are in the  
room you are - he will  
tell you you are not the  
physician he sent for - he  
will tell you he knows a  
thing or two - I recollect  
a case in which a young  
man fell into this state of  
dementia connected with  
epilepsy - he had been in  
a naval engagement &

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The second on board. he  
thought the person around  
were the sailors. his cap-  
tain of the vessel had  
been killed. This being  
made some pathetic ac-  
clamoration over him. The  
sloop had been taken. This  
he conceived. & held out  
his hand to some one of  
us as if giving up his sword.  
He said he was fatigued  
& desired to be left on  
the deck & wrapped  
in his clothing. he asked  
one of the sailors to give  
him a drink. a minute  
I had made he now  
looked, tho' during his ser-  
vice he had signally  
refused it. he returned  
to his former position.



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about 20 minutes afterwards

We have seen that the  
liver is unusually bound  
with the stomach - Hence  
that there is dis: in the  
stomach you will find  
dis: in the liver. Now if  
you have a morbid ac-  
tion in the stomach - when  
the stomach absorbs alco-  
holic drinks & you will  
find this in the portal  
circ: & be taken into the  
liver to exert a morbid  
action there - Hence you  
see that in the first, when  
alcohol excites the stomach  
& this is sympathizing  
with the liver - then again the  
liver is directly excited by  
the alcoholic fluid -

The lives I don't only consider an or an means of succession but also of elimination &c.

When we, like to the continuation. It is brought by the sympathetic action then by the force of direction being imperfect & then again thro' the intervention of the lives - not knowing out a supposition of life &c.

The kidneys & stomach are bound together by means of nerves. If the nerves at go to the stomach: are injured. Then at go to the kidneys will also be.

In a state of dyspepsia the stomach will not be

13-00  
heart & also the chyle. The  
Kidneys are eliminatory or-  
gan - hence what is re-  
tained in the blood is re-  
drawn out - we find  
acids in the stomach, now  
the Kidneys will secrete an  
acid - Of them is a great  
excretion of acid in  
the stomach even will find  
it in the generally in cir-  
culation it will be thrown out  
by the exhaling & eliminat-  
ing organs - ... with  
respect to the lungs the  
stomach & the lungs are con-  
nected by nerves. The connect. n-  
erve in the brain by means of  
the pneumogastric nerves.  
The spirit may arise in  
the roots & be reflected off.



The lungs are eliminating  
toxins. The smell of  
garlic - liquor - &c can  
be detected in the lungs -  
I look therefore to the  
lungs as organs of excretion  
even as the Kidneys are -  
Say: that the stomach  
is in an unhealthy condition  
the liver be necessarily also  
affected - the spleen will be  
unhealthy - the liver be  
involved in the right side  
of the heart & the connection  
to the lungs finally results in  
his way to disease.

With respect to the  
heart his observations are  
applicable. It is  
supplied with nerves from

183.

The same branch, as the  
 olivary - It receives more  
~~gaseous~~ nerves than the  
 cerebral nerves. Hence  
 if there be a disordered  
 state of the nerves of the  
 brain, the visceral nervous  
 org. in the heart - it will  
 act abnormally. If  
 the lungs from becoming  
 unhealthy become denser it  
 in this state with the  
 heart will be to it an  
 unhealthy stimulus. The  
 same will happen if the  
 quantity of blood from  
 the lungs is increased  
 to hypertrophy of the  
 lung.

With respect to the  
 ear if you write me

Extremes extremity of a  
 nerve will convey an  
 err: to the brain - Con-  
 sider his great aspect to  
 the storm: - if you have  
 an morbid err: in the  
 sentient extremities here  
 this will be transmitted  
 to the brain, giving rise  
 to ep<sup>lepsy</sup>, hysteria, hypo-  
chondriasis - hemicle-  
ptia &c. Organic lesion  
 will here syn<sup>thetically</sup>  
 developed so, & this will  
 last after the primary  
 organ has returned to  
 a healthy action.

Treatment. He who only looks  
 to the fact, will neglect every  
 thing I have before said -  
 I shall not dwell on it in



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my part of my course to pre-  
sent at medical or compound-  
I shall only speak of certain  
indications to be fulfilled  
& certain stages of med: for  
more minuteness on this re-  
spect to the chair of Med: Med:  
I refer.

For works on indigestion I  
refer you to Phillips on  
Indigestion - Paris on Diet, &  
Johnston on the Stomach. &  
also Abernethy's papers on  
Constitutional diseases ar-  
ising from local affections.

In reference to the stomach  
&c in this malady, I am  
soured to consider it connec-  
tured with a morbid action of the  
nervous system. There may  
be superadded to this an in-  
flammation which conti-  
nuing gastritis. Hence I dis-  
card the consid: of stages in  
this affection - It is associated  
with a torpid state of the bowels,

What an the means within  
our reach for restoring it to  
a healthy action. I wish you  
to recollect the etiology of this  
disease. Recollect the causes  
it gives rise to it. One need  
of the causes will lead us  
to consider the exciting cause  
to remove them to effect a  
restoration. This you may  
sometimes find very diffi-  
cult. He may detect the  
use of tobacco as a cause.  
You will soon, a discon-  
tinued of it - in this you  
may frequently be deceived.

The causes arising from  
improper diet generally take  
the head. You must en-  
deavour to regulate the diet  
of the patient. You will  
have to diet your patient  
let it arise from what cause

it may. Your object will  
 be to keep the stomach, just  
 as you treat a fractured or  
 sprained limb, at rest as  
 much so as possible - that  
 it may recover its lost en-  
 ergies. You must not call  
 upon the stomach to perform  
 a function while irritated,  
 which while in health it  
 performed perfectly & easily.

When fecal matter  
 accumulates in the lower  
 bowels it will produce dis-  
 action in the stomach. But  
 still in your dietetic ap-  
 plication, you must not  
 choose such articles as will  
 be entirely formidably  
 & leave the colon not  
 at all loaded. Much ac-  
 cumulation must be  
 prevented. it is necessary that



10<sup>th</sup>  
Then shd be a peristaltic  
action kept up in the  
bowels - it is nec. to keep  
up this stimulus wh goes  
to keep up the vital fund.  
If to remove accumulations  
by purgatives you will be  
disappointed in your effort.  
I believe there is a limit  
imposed upon us in re-  
com: a diet to our dys-  
peptic patients. but if  
there be a gastritis you  
may wish to allow almost  
any extent stimulating  
food. Then I don't al-  
low that state of the  
stomach.

10<sup>th</sup> The diet must be  
adjusted in quantity to  
that has been taken in  
in ordinary quantity -  
The reduction of diet

depends on the temperance  
 When the signs of inflam:  
 are not great the retri:  
 need not be so great. But  
 when you find the tongue  
 red - tender ness of epigast:  
 rum - pain in stomach - &  
 when the symptoms  
 were off - you will slightly  
 increase the diet.

2<sup>d</sup> When any part: act:  
 of diet or drink has been  
 the cause it must be  
 entirely omitted. You  
 must restrict him in  
 this but let him use &c

3<sup>d</sup> Those things which  
 are difficult of digestion  
 must be proscribed.  
 Thus you will often  
 more readily learn from  
 the patient himself

L.R. The food shall be  
 well masticated. By  
 this it becomes mixed  
 with the salivary juices.  
 & that the surface to be  
 presented to the coat of  
 the stomach will be perfect.  
 It shall be too slowly swal-  
 lowed. I have known  
 many cases of dyspepsia  
 much improved by these  
 precautions & not drink  
 much.

S.R. The diet shall be  
 both animal & vegetable.  
 This seems to be a case  
 of our nature, & our  
 diet shall be mixed, con-  
 sisting of both animal &  
 vegetable. My opinion  
 is now confirmed in  
 correctness of my remarks.



16<sup>th</sup>  
When the stomach is inflamed  
the farinaceous diet will  
be proper. When there is an  
acidic & animal food will  
be the best.

6<sup>th</sup> The animal food  
should be cooked with vine-  
gar &c. - most with none  
condiments. And con-  
ditions as soups, jellies  
must be provided.

7<sup>th</sup> Meat & meats are  
improper. The lean parts  
of animal, that are very  
fat, is the most digesti-  
ble. When the animal has  
been very poor the fibrine  
will almost be reduced  
to its elements.

8<sup>th</sup> Salted dried &  
smoked meats, especially  
those which are fat must be  
eaten sparingly.

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90<sup>th</sup>. The salicyenous animal  
meal, & venison looked well  
when so are indigestible.

10<sup>th</sup>. Fresh oysters are  
digestible.

11<sup>th</sup>. Solid animal food  
is more dig: than soups.

13<sup>th</sup>. Animal food should  
not be cooked very much  
by cooking a great deal  
a nutritious particle is re-  
moved.

12<sup>th</sup>. Eggs not too much  
coagulated, nor fixed in  
butter, or fat, or any be-  
cause in small quantities.  
I don't think soft-boiled  
eggs good diet for dyspeptics.

14<sup>th</sup>. Milk is good  
but it must be prepared for  
the stomach. When an

16.<sup>d</sup>  
man patient with whom  
this does agree - it will  
often coagulate in the stom-  
ach. It is not easily ac-  
ta upon by the stomach -  
It is mild & unexciting.  
When the patient is affec-  
ted with diarrhoea it should  
be boiled & mixed with lime  
water &c. New more digestible -

15.<sup>th</sup> Of rye stalk food note  
is better than wheat bread -  
It must be fermented - not  
dried - baked hard - & eaten  
cold. No bite act: un-  
der these restrictions than  
bread - don't violate any  
of these restrictions - if you  
do your patient will suffer  
for it. To make it agree-  
ment the bran has been  
left in it - The bran is  
indigestible - it irritates the  
lower bowels, but if the



17<sup>th</sup>  
Stomach is sensitive it will  
destroy M. Gal.

16<sup>th</sup> Indian corn bread  
without shortening - or egg  
& made into a thin paste  
& left to stand & then made  
hard & too hard - it is  
there a good article of  
diet - it is nourishing  
& acts gently on the bowels  
It must be eaten when warm  
Must is not so digestible  
as the bread made from  
the same kind of grain -  
It generates acidity -

17<sup>th</sup> Water crackers are  
good - It is eaten with  
out being soaked - they  
are soft & do not be  
come ~~soaked~~ chewed - When eaten  
hard they become well  
mixed with saliva

18<sup>th</sup> Prussianian artichokes - Lima beans - vicia  
 do contain a great deal  
 of fecula. They are  
 applicable w<sup>th</sup> justice is  
 present. The sweet po-  
 tatoes has a something  
 not marked in unap-  
 plicable in dyspeptic pa-  
 tients. They act on the  
 bowels loosely & in this  
 way they are useful.

19<sup>th</sup> St. Ives potatoes  
 I have not been marked  
 up. 19<sup>th</sup> Asparagus, con-  
 tains de au good.

20<sup>th</sup> vegetables liable  
 to acrimonia acid from  
 the sugar, the co. in are  
 infrequent - Hence the acid

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*[Faint, illegible handwritten text, likely bleed-through from the reverse side of the page.]*



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*[Faint, illegible handwritten text, likely bleed-through from the reverse side of the page.]*

<sup>part</sup>  
Linnæa & Durum fruits  
are laid. When they  
grow in size to acidity  
they are antiphlogistic.  
They will often increase  
the acidity of the stomach.  
Of Lupton at all old  
Ladder on an empty stomach.  
In infl. cases useful. In  
advantage they are on the  
bowels & this oft counterbal-  
ances the on bad effect.  
Many of them had been  
be Lupton with the other on  
the same.

21<sup>st</sup> All ~~diapyrion~~ <sup>diapyrion</sup>  
are improper, as walnuts  
better not be an in-  
proper - especially eat  
by hand, been long

229. Tea & coffee are to  
be taken moderately. Water  
when there is a propensity to  
dis. in any organ is the  
best drink. In the  
Kama when the patient is not  
very young - a little spirit  
added to the water im-  
proves it. Fermented  
aroids, a beer, port-  
land & domestic wines are  
improper. Old wine &  
good bottled cider you  
will often find of service  
when taken in the morning  
before breakfast.

You obs: that I receiv-  
ing a state of the stomach  
in which it will be necessary  
to reduce the diet to a  
minimum. Yet there  
are many cases in which the



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practice will not do. There  
are cases in which the form  
American art. would do -  
in which American food must  
be resorted to. Avoid all  
articles which will tend to  
a reproduction of the  
dis. This is a dis. of  
of many years in these  
cases, a mistake will  
be the most proper. You  
must be simple.  
The pat. must take it  
in moderate quantity -  
so as not to cause  
feeling of distension - but  
an more apt to end in  
allowing too much diet  
the pat. will not be  
lead him to excess in  
his meat. Yet still

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we must be cautious  
not to run into the  
extremes. Injuring has been  
done in this way. The  
powers of the stomach may  
be ~~so~~ weakened by purg-  
ing this practice, & it  
must have its nat: stim-  
uli. it suffers without  
it. in idiopathic dyspepsia  
we must not deprive the  
stomach its natural stim-  
uli. The law of the animal  
economy is that the stomach  
& bowels shd be stimulated  
There is reason in all things  
& now where is it more  
obvious than here. Avoid  
extremes.

Medical Treatment. I can  
say but little more on this  
part of this subject than  
the law of economy tells  
me to you. What we can

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accomplish it by med. wies  
after he has trusted. But  
as I think it is nec. No  
you shd make some  
estimate of the value of  
what is said in direction  
of the treatment of this  
malady in the book.

I cant present to you  
we are said to the in-  
dications of cure are in  
this dis. — I choose rather  
to call your at. to the  
classes of remedies which  
may be beneficial.

1<sup>st</sup> of bloodletting both  
general & local. When  
the patient feels great  
anxiety - ag. eating - great  
thirst - pulse excited -  
thirst - tongue red - full  
ness & tenacities of the



epigastric - you may  
 outline the is a gastric  
 & it will be indi-  
 cation - This dis. does  
 not bear bloodletting - &  
 if in reality be cured  
 by bloodletting - But often  
 you may resort to it if  
 you find it necessary to  
 as a sanguine em. erant  
 Many cases with prohi-  
 bition will admit of cupping  
 etc. In all cases where  
 there is a hot condition  
 you will find bloodletting  
 an admirable  
 remedy - needed in the  
 country & small towns  
 it often be the  
 or require a Price to  
 manage them - But

cupping is accessible to all  
 & every where. Instead of  
 a scarificator you may  
 use a simple lancet - & I  
 think local bloodletting  
 of great advantage in  
 many cases - You will  
 distinguish the cases to  
 which it alludes - you will  
 know what are the signs  
 of a plethoric rich  
 state - & in such you will  
 easily distinguish the state  
 from what I term idiopathic  
 diseases -

You will recollect that  
 these cases in which you will  
 use it are those in  
 which you would not give  
 animal food - you will  
 find the mercurial  
 & other signs to enable

they are almost proscribed  
 in this disease. The final  
 school entirely through them  
 out of the question. In  
 those states of the system  
 in which they are required  
 they should never be used -  
 but in the other form  
 I believe they have no help.  
 The excite in muscular  
 act. of the stomach, its  
 secretions are increased.  
 The whole system excite &  
 a variety of symptoms are  
 delivered. But this is  
 a state it is diff. from  
 inflammation. This state is  
 a nervous irritation - &  
 who are greatly increased.  
 Emetics in these excite  
 is an example. A Arteries  
 may even die. Now



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Wh you or administ  
emetic to such habits  
should be regulated. I am  
in the with London

Caustics - They are  
Niviana into, in, other  
- Caracines - It is in  
Delaware happens that  
call: or call an ap  
plicator, yet can make  
happen - As when  
a patient of Leuphler  
maric Habit comes to  
one who is a formant  
I has great dis-appe  
ment of Digestion. You  
will soon bleed him -  
You may give this  
rec: to such emetic -  
It must be administered

You may see with great  
 advantage both call:  
 will act on the liver & be  
 called *Indigestion*. You  
 thus be well experienced  
 great relief. Yet there  
 will be a limit to this  
 use. When you find  
 these having found also  
 you expecta or all they  
 can do, discontinue them.  
 But care: in nervous  
 persons are contraindi-  
 cated - & also in those  
 cases in which side are  
 demanded - call: and  
 improve.

Antidotes are more  
 generally. The use is  
 simply to prevent ac-  
 cumulation in the

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homely - but a true dis-  
ciple of the French school  
will tell you that it  
there is by implication of  
inflamm in mucous membrane  
Yet I think whenever  
the dis. is attended with  
costiveness & evacuations should  
be given -

Prud has been said  
of injection. These are  
somewhat connected in  
st. with the lungs. When  
there is costiveness &  
a phlogistic action present  
are beneficial - but  
in Lymphatic habits  
you will derive more  
advantage from  
dr. - They here do in-  
jury



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Ant-acids. Now an acid  
but acidity is a com-  
mon attendant on  
this dis:- but I am  
strongly under the impres-  
sion is secreted from  
the stomach. This will  
often be known up by  
eructus or gurgles or  
vomiting. When per-  
sons are restless & you  
may set it down that  
the person's stomach is  
acid. If he vomits  
he is acid. If you  
give him magnesia  
for relief from a salt  
in the stomach this will  
pass into the bowels  
& will produce, urging

He will do in this  
 way or live. If you  
 for him call: Please  
 he will be immediately  
 relieved. Then you see  
 they are at miserable  
 relations - but they are  
 nothing more. But  
 I don't see more I mean

In dyspepsia we  
 are presented with nerv-  
 ous irritation - just  
 Africa, just dyspepsia.  
 Dyspepsia is a condition - too

here you are so admit-  
 it for it is a condition - Nervous  
 is - Always shows itself  
 what you find may be  
 a very very low fact  
 there are others. As a rule

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My dear Mrs. C. I am, I hope,  
re-acted. Thus you may  
continue with your rem-  
edies.

Notes - All the words  
known that I know are  
almost & chiefly - be-  
cause there is no list -  
You all know in re-  
lative condition. They are  
contraindicated - In  
the same manner they are  
they are improper. In  
the same manner, indeed!  
Other other remedies, also  
- avoid. Avoid giving them  
while an as they are  
contraindicated. Then with  
some thing that would be  
a laxative. The other  
piece harmonized



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Diagnosis. You are  
will aware of the con-  
union in stomach & other  
lungs &c. When we wish  
to direct to action etc. of  
the stomach, we must  
attend to the skin &  
use such means &c. - When  
you find the skin dry  
you may apprehend  
inflamm. in stomach - but  
when it is cold &c. it  
will denote debility -  
or such use warm hot  
flannel etc on skin  
frictions &c.

Moral treatment  
When there is a contin-  
ual slow long  
around the patient  
a want of resolution

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when he is saying he  
won't expect to live long.  
I neglect his worldly  
affairs. You & his girls  
will endeavor to ex-  
cite some, pleasing im-  
pression in his mind. Some  
gladdening hope - some  
far image. There will  
reside a few. In brain  
the excitement will  
expand over all his or-  
gans - his stomach will  
be excited to a new ac-  
tion. He will feel him-  
self a new man. He  
will again form new  
plans & business & his  
friends will say he has  
rather improved & he is aware

man &c &c. But it is  
 given place to their own  
 war - Their own un-  
 derstand his sig. - You  
 No - I will interest my-  
 self for <sup>the</sup> man - & the  
 credit of himself -

Cholera Morbus - Diarrhea  
Synergy - Chol. Infantum -

You may think it an-  
 nounces that I mention and  
 one kind to many diseases

In the book you will find  
 each of these described sep-  
 arately & the symptoms ap-  
 pearing diff. - But I will  
 present them to you as they  
 have presented themselves  
 in our practice & to my  
 understanding as dis-  
 tinct of a class of many more



already.

The viscera concerned in  
 these Dis: are the stomach  
 the bowels, the liver &c. called  
 the diaphragmatic organs.  
 When there is increased  
 & inverted peristaltic mo-  
 tion of the alimentary canal  
 we call it chol. When  
 confined to an increase of  
 the peristaltic <sup>act.</sup> we call it  
diarrhoea. When confined  
 to the lower bowels & bloody  
 discharges are present  
 we call it  dysentery.

Pathology 1<sup>st</sup> let us consid:  
 the peristaltic function. A  
 morbid state of this when it  
 is inverted or increased mor-  
 bidly - In chol. it is inverted.  
 In this Dis: the contents of  
 the stomach is expelled &  
 even the cont: of an oedema &  
 moves occasionally of the ileum

8.2

It the same there is an in-  
crease of the peristaltic act of the  
lower bowels - Now this  
sometimes exists alone, then  
it is diarrhoea - Hence you  
see the connect. of this - but  
dis - This peristaltic is connect.  
with dis - we have morbid  
contraction of muscular  
coat producing pain - &  
in the lower bowels constant  
& augmented - causing tenes-  
mus - This constitutes dysentery

2<sup>nd</sup> Let us enquire into the  
cond. of the mucous memb.  
I spoke of the af. of the  
peristaltic act first because  
it is always most obvious  
In chol. we have morbid  
irritat. of the memb. &  
increase of their The muc.  
memb. of both stomach &

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bowels affected. In dysentery we  
have morbid sensibility &  
morbid increased secretion  
of the bowels. This constitutes  
the remote cause of dysentery.  
In dysentery we have the  
mucous membrane morbidly sen-  
sible with more pain &  
an increased secretion with  
blood & serum. This is con-  
fined mostly to the lower  
bowels. There is plethora of  
the mucous membrane & some-  
times ulcers & sometimes ul-  
ceration & sometimes in-  
flammation. The reason  
why there seems to be more  
pain in the rectum is that  
it is more largely supplied  
with nerves.

The mucous & muscular  
tissues are closely con-  
nected & we have infl. in the



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and we will find morbid  
contra: in the other writings  
found. Hence what we see  
the mucous, mucus: twice  
increased the parietal the ad-  
tity.

3<sup>rd</sup> Let us consid: the  
condition of the viscera col-  
lecting connected with the  
bowels &c. These are the liver  
the spleen, & Pancreas -  
with respect to the liver  
we have the means of  
judging of the state of  
this organ & in the dis;  
which we are considering  
we will find the liver  
affected. Some think that  
a primary & others a  
secondary aff: ~~from~~ ~~the~~  
dists. are in error or false

gone to sleep.

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In cholera: what is the  
character: condition of the liver.  
Many of you would say increased  
secretion. This  
could be tried in some cases  
but not in all. It will  
happen in adults that the  
bile be large quantities of  
pale yellow. Thrown up.  
That the vomiting & increased  
secretion is owing in some  
instances to increased food  
it like can be doubted.  
If true be. it follows that  
if the liver secretes to follow  
the vomiting he will wear  
off &c. & that this secretion  
increased the liver will  
live itself. The patient  
will be fit well. It

seems in the mild cases  
 do commence in the liver  
 & then occur what I  
 have just supposed. The  
 more I say there is an  
 increased flow of bile  
 in some cases, but were  
 a physician to stop here  
 he wd be no better than  
 the common people. The  
 most terrible cases are those  
 in which the secretion is  
 increased or entirely sup-  
 pressed & we have it  
 occurring from retained  
 secretion. All these vari-  
 eties will present them-  
 selves in the dis: called  
Cholera. In Diarr: it  
 is sometimes a decrease of the  
 bile &c &c.



In Asyntes there is a de-  
fective secretion of bile &  
hence a local suppres-  
sion. These are subjects  
of importance for your  
considerations -

4th We will consider the  
pathological state of the  
skin - In our case the skin  
is involved. Its vitality  
is impaired -  
& its secretory power is greatly  
impaired or suspended. &  
its color is diminished - All  
this may precede the  
development of the disease  
or it may come up after the  
disease has shown itself -

5th Let us suppose that  
the functions of the skin are  
normal - we have considered the

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of the skin. In all these  
dis. the heart is more or  
less disturbed in its action.  
Sometimes its action is de-  
bilitated - & again its en-  
ergies are increased - & we  
have fever. We must  
look to the cond: of the fun-  
ctio. & be satisfied to  
find it of one sort &  
again of another.

In the 6<sup>th</sup> place. we  
consider the brain & ner-  
vous system - In short the  
system is brought down  
rapidly. & we have spas-  
modic actions of nerves.  
Even we to paralysis of the  
muscles, we shd not have  
vomiting &c. The action of  
the vessels in diaph. is  
increased to the max.

as well to diamic action  
depression, in Lues cramp  
the low extremes - This  
considered almost panop-  
tomic. Such are the  
leading phenomena in the  
aff: we have been consid-  
ering & you see how long  
they are continued -

Causes - St. of Rose  
act on the m: memb:  
as unwholesome diet & drink  
of you take in diet putrid  
you will have chol: or di-  
arrhea. But if you take  
an unwholesome meat:  
poor. Malaria is said  
to exert its infl: in food -  
the disease - because they  
partake in our meat &  
evidently. & that the  
account in con: with inter



remitting fever. I must con-  
 fess I am unacquainted  
 with the cause. but they arise from this  
 cause. but they are un-  
 known as well as it.  
Furcation is the result  
 of air - which is from  
 cold or moisture. It may  
 arise from cold & the  
 perspiration. This cause  
 we will find occurring  
 when malaria is said to  
 exist. when there is alterna-  
 tions of heat & cold with  
 moisture. This is a ques-  
 tion yet sub judice. The  
 cases of Diarrhoea & Dysentery are  
 referable to this alternation.

In all these maladies  
 you will observe that  
 the blood is never

with disordered function. The  
 the other. Now when the  
 blood has ascended the  
 surface where has it gone?  
 It cannot exist in the cavity  
 of the cranium; for then  
 we should have apoplexy.  
 It has left the external  
 canal. It seems to me  
 it is accumulated in the  
 abdomen: viscera in the  
 portal circulation - as being  
 the liver. There is then en-  
 largement of the portal  
 circulation.

Now sup: an int: ex-  
 cess of action there will  
 be an alteration of the  
 skin I have just observed.  
 The blood will be accum-  
 ulated in the internal organs

When the brain is the cause the  
nervous function will be  
affected. The sensibility  
will be affected. The  
propagation will be  
affected by the loss of  
nervous energy - & conse-  
quently it will be ex-  
hausted somewhere else.

I saw then that the  
influence sent out from  
the head is in a contin-  
ual kind - Now when  
you observe that the  
respirable fluid is  
checked - when the next  
quantity of the nervous  
off is retained what a  
source of dis. will it  
generate. The sensi-  
bility of the liver - the



stomach & will be de-  
 and motion from the ac-  
 cumulation of blood & the  
 afflux of nervous energy.  
 At one time the mass of  
 the stomach will sympathize  
 the bowels - & the  
 again the lower bowels -  
 this rise in this leads to  
Chol: Miasm. & Agentry  
 & you may have the his-  
 to secret much vitiated  
 bile - it may act or  
 not act. Its nervous  
 energy may be so limited  
 that it cannot secret.  
 You will find that all  
 these organs are limited  
 as it were by the blood.  
 The liver is an instance

may believe this conjecture.

You will find that sound  
that the liver is referred  
to in all these aff- and  
there is a certain- hepat-  
sympathy - & then the  
Brotysan vice like y  
In irritation always  
commenced in the mus-  
cles, menbr- fin- v-  
to duodenitis, colitis - fol-  
tritis. That this is the  
function salivary of the  
disease. These apparently  
obvious discrepancies must  
be combined. They may  
be an irritation devel-  
oped in all these organs  
at the same time. 22  
may occur in the liver

It may take place simul-  
taneously in all the organs.  
Let us, keep to inflammation: I  
told you when speaking of  
dysenteries that inflammation was  
not new: for this dis-  
So I say these dis: are  
we are now considering  
may occur without any  
inflamm: - but you may  
have inflamm: got up in  
these organs giving rise to  
all these diseases. You may  
have violent peritonitis spring-  
ing up from the same cause -  
connected with hepatitis,  
dysentery, diarrhoea, cholera.

Treatment. 1<sup>st</sup> of chol: mor-  
bus. This may be a sporadic  
disease. or it may be epidemic.  
In the U. S. when it is epidemic



The weather is very hot. generally  
 comes in June or July. on the  
 whole it is a precursor of an-  
 tennal fever.

Great muscular lassitude.  
 nausea. epigastric distress  
 amounting to pain. vomiting &  
 diarr. - intense thirst. cramp  
 or spasm in stomach -  
 spasm in abd: muscles. &  
 lower extremities. Great heat  
 of body - in severe cases total  
 prostration of power of  
 heart. - oft proves fatal  
 in 24 hours - In West-Indy  
 oft in 4 hours. When it acts  
 as if a poison mustard  
 were taken. As we have  
 seen in some cases great  
 increase of flow of bile. There  
 are ~~most~~ favourable cases.

Cognates. The most violent  
 the onset of the dis: &  
 the most suppressed is the  
 flow of life. The most dan-  
 gerous is the disease. When  
 it occurs sporadically it  
 depends on some irregular-  
 ity of diet or gross exposure.  
 This at any season of the  
 year will induce a  
 hemorrhage of this malady  
 in person predisposed to it.  
 In warm weather when it  
 prevails epidemically the  
 phy: shd give his preven-  
 tive advice. It is to avoid  
 warm things, hot air, the  
 exciting causes. avoid the  
 heat of the day & the  
 dampness of evening &  
 avoid irritating ~~exposure~~

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Advice our patient against  
all stimulating food. & repugn-  
ate food. Both may excite  
irritation in the stomach.  
In addition the taking of  
of an emetic or of an emul-  
sion - when the tongue is  
purged - person languid & de-  
wille often prevent an attack  
of cholera. You may some-  
times ward off this dis: by  
the exhibition antacids - as  
of Zinc or Zinc of magnesia.  
You will correct the acid  
which excites the dis: & brings  
on the spasmodic action of  
the stomach &c.

Acid dyspepsia - The upper por-  
tion of the stomach & bowels  
often exhibit traces of in-  
flamm: & even angina. We  
have been purely gastric.



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enteric cases. But cases we  
can not examine on  
face of inflam. - any when  
these are those we consist  
in a failure of nervous  
energy - & mixed nervous  
irritation. In

Diagnosis - These two  
forms difficult to distin-  
guish. Both attended with  
failure of strength & act  
of heart. The majority  
of the cases are of the lat-  
ter kind -

Treatment - If I found  
act. of heart increased - &  
pain & distension of epigast-  
rium I would H. my pat.  
& cup the epistomus to the  
last degree. At the  
same time I would defend

on cal: & opium in large  
 doses. Give them in pow-  
 der. ~~Typical~~ to 11gr opium  
 const: dose. Let them be  
 intimately mixed. They  
 will be retained when  
 the stomach expels almost  
 every thing else. If the  
 dis: consist in irrit: more  
 the opasmodic action will  
 be allayed - & the general  
 tumult of the system  
 will be tranquillized.  
 The prescription I have  
 given I consider an admi-  
 n in many acute ind-  
 ades. Perhaps this is so  
 large dose - you may  
 diminish it accord-  
 to circ: - It must be ad-

21/1/15

Decided inflam. present in  
prescription will assist you  
in your diagnosis - Then  
the pulse will rise - The  
heat increased - & then you  
will discontinue the opium  
& resort again to the  
drugs.

Let the drinks be of the  
lightest kind - Give the  
saline mixture - Antacid  
drinks, &c.

Salt chicken water some-  
times suits me some days.

External ap: should not  
be neglected. At a very  
early period w<sup>h</sup> the feet  
are cold - immerse them  
in a hot salt bath - This  
with an emetic - admin:  
in early stage will I am



2/2

Confident cold check the  
his - But w<sup>h</sup> the feet  
are cold use the bath  
I have seen - Very  
stimulating for the  
g of clon, oil is the  
hot drink - of spirits  
of warm very warm water  
applied over the stomach -  
Dip a cloth in very warm  
water & apply it immediately  
over the stomach & hold  
it there - will be more  
useful than all the medicine  
taken or for a time you  
could use - Let it be as  
warm as it can be held  
to treat indigestion - after  
heart aching & indigestion  
After the paroxysm

let him use the lightest dress -  
the moccasins, part of  
animal skin. & let him avoid  
all exposure - use broad airy  
warm clothing -

Colic infantum - occurs  
in children - & in the second  
year - in the second sum-  
mer - it prevails epidem-  
ically in the summer seasons -  
I shall not enter into a  
detailed description - It  
is attended with more than  
double the same disease  
as in adults - more thirst -  
the brain is more affected  
with inflammation -  
great excitation - I  
look upon it to be more  
inflammation, & is attended more  
by a faster excretion & an

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Arachnitis associated with  
it. You are not to treat  
all cases of this kind &  
I am have clear evidence  
that inflammation is not neces-  
sary - We cannot exclude these  
diseases from the pharyngeal  
diseases, nor can we in  
all cases admit them into  
that class of dis.

Treatment. In many  
cases is required - General  
use beeches to epistaxis  
in the febrile stage. In  
this way you will relieve  
the infl: of brain - Now  
may apply cold app: to  
the head & excitations -  
If the feet be cold re-  
sort to a bath of  
stimulating than has



215-  
recommended - or adults. You  
may make use of the  
lukewarm bath. Immerse  
the child into it for a  
few minutes - it serves of  
the operat: caloric &  
direct the first opening.

It always thurst avoid  
drinks. They will keep up  
the vomiting. Cold water  
is one of the worst drinks  
you can allow your little  
patient it keeps up the  
vomiting. Strong hyson  
tea will often allay the  
vomiting.

I wld give medicines  
as calomel - in doses of 1. 2.  
or 3 grs every 2 or 3 hours.  
As the febrile symptoms  
abate continue the cal. with

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Opium - Continue the  
Tincture until a tolerably  
deep, let a coma is brought  
on - 410 gr of Opium in 18  
of cal: is a medium dose.  
I believe it one of the most  
valuable remedies we  
can use. Direct your  
Opium according to the  
flammatory symptoms  
present. The cal: aug of  
liver. &c.

When it becomes chronic  
& diarrhoea is present we  
will have to treat and  
come to treat of chronic  
diarrhoea.

Diarrhoea. During the  
hot weather in colic and  
present, Diarrhoea will  
occur with no great

21<sup>st</sup>  
omitted. In these cases the  
discharge will be copious.  
Not only from the lower bow-  
els but from the upper por-  
tion. Undigested substances  
will be expelled or half di-  
gested.

This malady may occur  
under a variety of circumstances.  
It is connected with many  
other diseases. It often  
may have a catarrhal origin  
or a diarrhoeal one. It is  
often seen in both stages  
of inflammation. The acute  
stage occurs in the  
liver may be in a state  
of inflammation connected with  
an increased secretion of the  
biliary members. The chronic  
stage is a result of indigestion and  
is due to this malady.  
It is due to the decomposition of



2<sup>nd</sup>.  
The food being imperfect.  
The latter, reads in persons  
not diseased, & brings about  
perfect health. In short  
any cause that increases  
the sensibility of bones & calls  
into action the periodical  
action we will have dis-  
ease. On the other hand  
if we have irritation in-  
to in the system from  
any cause we will have  
diseased - from their irri-  
tating effects.

When this dis- occurs in  
the summer & is the mem-  
ber of these diseases. It  
may coincide with  
dyspepsia, or for the  
above that the great  
or ~~the~~ <sup>the</sup> action of the

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mucous membrane. This  
is an intestinal & not a  
gastric irritation. This  
may become as formi-  
dable as any of those dis-  
eases I have been treating -  
The discharge may be  
in the mucous or bilious.  
This may carry off the  
disordered action. When it is  
arising from irritation it acts  
on the mucous membrane of  
the intestine &c. When it is  
attended with acid &  
spasmodic action. When the  
quantity is changed - other  
things depend on what  
I have before indicated  
to you. Let me direct  
your patient to simple  
purgatives &c. - if need

By. enj. so. & since this  
 Inflam: action. but the  
 disease may become chronic.  
 Endeavour to ascertain what  
 the wt. the dis: depends on.

You will see these in  
 the above described, in  
 operation. Am: enj. & the  
 secretion. Occasionally you  
 will find increased action  
 action then you will find  
 increased inflam: action.  
 The dis: is turned inward  
 as Sydenham long ago ob-  
 served. The dis: I think  
 will diminish. The  
 mouth will be dry. The  
 tongue will be brown spotted  
 & dry. The saliva will  
 be small in quantity. It



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in a case where there is a  
constant demand of the  
blood thro' the intestinal  
canal.

Treatment. This dis-

temperament on various causes  
will require an accurate  
observation of circumstances  
to get the proper one. In  
any case it occurs in  
burned an anti-phlogis-  
tic seldom be called for.  
An emetic or an emeto-  
cat. will often do good.  
In some cases purgatives  
will be needed. These are  
used in all there is a  
superfuous engorgement  
of the portal circulation.  
The cath. now proposed  
will be hydropyric & the

22  
challenged. Resist the  
Aunt of the patient - too  
bring about a cure by  
causing a more violent  
attack. When your  
patient is rendered by  
cathartic - give cal: &  
opium. You may unite  
with the operation of  
bleeding. This state will  
not be attended with  
inflammation. In  
many cases it will be  
best to administer the blue vit.  
It is less irritating & will  
not so soon produce  
salivation - The cal. &  
& blue may be  
given at bed time - or

In some case then will  
 be great anti-g. - give  
 ant-acids. Take the alkali  
 as proper - lime will be  
 the best. it is antiseptic -  
 You can't give the Magnesia  
 it will produce pyrosis.  
 Galls - cinnamon - aromatics.  
 The secret stimulents  
 will also be proper. Food  
 must attend to the skin -  
 Let him wear flannel.  
 The flannel rolled ar-  
 round the abdomen.  
 Round the abdomen.

Dysentery is almost in-  
 variably an inflammation of the  
 mucous membrane & hardly  
 ever from irritation. You  
 may have an inflan



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superficial irritation.  
& when it alights on the  
colon & intestines most fre-  
quently brings on dysentery.  
Sometimes the dis. called dy-  
entery may depend only on  
irritation. This may be  
concluded from the man: in  
which they are cured. The  
difference of the phenomena  
is very slight. When we have  
heat & tenderness of abdomen.  
It may call in dysen-  
tery. It was supposed dysen-  
tery was attended by con-  
tinuousness giving rise to  
spasms &c. Dysentery often  
is connected with an infl.  
of the whole intestinal can-  
nel most frequently or  
confined to the colon &  
rectum.

It is sometimes connected  
with faeculent discharge,  
from the lower bowels. While  
the upper portion will not  
be affected.

Dys. is not so often  
a sporadic affection as chol-  
or diarrhea - but mostly  
met it as an epidemic.  
You will find that all  
fevers - small pox &c. - do  
prevail at certain times  
& then again disappear.  
These we call epidemic  
diseases. - Of this class I  
consider dysentery - It will  
often be connected with  
some form of fever - of a  
regular type - I have seen  
them rising & falling to-  
gether.

I am not telling you

2263?

am. Ming Theoretically. I  
am but announcing to  
you a fact. You will be  
all this tending to prove  
that they run upon the  
then leave us & again re-  
turn like comets. That  
leave us & we know not  
whether they go.

Cause - On this I shall  
not say much. When Dys-  
pepsia occurs with fever or as a  
substitute for them. They  
often take the place of  
fevers. When you run the  
fever in connect with Dys-  
pepsia you will easily be  
led to the conclusion that  
it may arise & does from  
the same cause. It is  
a Dis. of the canal. It does  
not confine to a diet of  
a particular kind. and



have experience of in long-  
 whole armies have been  
 cut off by it who the  
 surrounding people were not  
 affected by it. Hence it  
 obviously must be their  
 diet. Unmixed diet is  
 most liable to produce  
 the dis. - Not salt meats  
 but fresh especially beef.  
 This has often been its  
 cause in camps. & the  
 dis. will continue after  
 the diet has been changed.  
 This seems like a prope-  
 ration from contagion. prob-  
 ably arising from the joints  
 disordered. The fresh beef  
 taken so abundantly by  
 soldiers may give rise  
 to the dis. by some kind  
 of decomposition. For  
 I have the contrary been

Ammoniac & regulable foot.

In French armies, the  
affliction of dysentery. The  
soldiers were turned into  
a wine yard & they eat  
a quantity of the ripe  
grapes & in soon all were  
cured. This circumstance is  
related by Linfo.

Treatment. In many  
cases of dysentery are so mild  
that we can generally cure them  
yet sometime it appears  
of so much violence a fort  
as to resist our remedial  
efforts. When the whole  
system, more than is affected  
with inflammation. The dis-  
ease is most dangerous. When it  
occurs with but little  
fever, it is easily cured  
but when it comes on  
with prostration & Red

hot & dry. numerous feces,  
 rather frequent & stools  
 small & bloody. &c.

It is diff. to say w<sup>h</sup> the  
 indications of cure are. The  
 great indicat. is to remove  
 the morbid state of the dis-  
 parts. Our object will be  
 to cure the inflam. in the  
 bowels. But to do this we  
 must attend to nothing  
 else. There is no one  
 danger that we can do  
 w<sup>t</sup> we can affect it,  
 In the first place we  
 must draw blood both  
 generally & locally. especially  
 locally. You will un-  
 derstand it to remove the  
 inflam. - leeching generally  
 will be better - but I  
 can't get it to stop.



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It shall be employed in the  
early stage. In two insti-  
tutions of bloodletting in  
must be governed by the  
heart & skin &c. The  
next object will be  
to still the summer  
intestines - & bring back  
the healthy secretions -  
This is dist: from H.  
purging, cupping &c. You  
must adm: freely must  
cicage. whey - elm bark  
effusion &c. in connecti-  
with these minute por-  
tions of Antimony or  
Opium. Give them not  
as to produce nausea. At  
the same time you will  
adm: freely cal: opium  
Opia: &c. to tranquility

the bowels & increase the  
 secretion of Liver &c. The  
 next thing you will do  
 will be to open the bowels.  
 When every thing is in fam-  
 ily action adm: diluent.  
 Ps: cal: & opius &c. &  
 after you have purged  
 the bowels - adm: bit. mucal:  
 of sugar anabac. Sygar &  
 or if this don't please  
 you give Sygar: Tragen:  
 with Far: Anti: in small  
 doses. with Sygar: Opus  
 fine then in a dilute  
 state. Avoid strong  
 & anag, & alap &c.  
 After have conducted  
 your patient thro' these  
 throes & obtained  
 a large discharge of Sygar  
 & anabac: mal: bile &c.

You will find your patient  
much relieved.

It will sometimes happen  
that the stomach will  
be much improved -  
acid &c. - The food will  
remain on it, & not  
pass into the bowels &c.  
When from the symptoms  
you judge that to be  
the state you will ob-  
tain great advantage  
from the exhibition of  
an emetic. The effect  
of it does not stop at the  
stomach but extends  
through the whole system. - When  
there is a crisis of the  
stomach & bowels you  
shall observe the same.  
This will be harmonious



with your other means.

With respect to taxes -  
 Now we must keep our  
 Machine in its accustomed  
 position. Let him pay  
 his stool in the stone  
 heap. You will give  
 the farmer, with in-  
 sections of stone & land;  
 and - even about as  
 table of range to give of  
 the stone. It is for  
 some civil. He has can  
 hear the unjoked pipe  
 as a suppository of stone.

You will at the same  
 time attend to the old -  
 the flannee next to  
 the - & the flannee  
 rolled - You have heard  
 of Dyer to being cured

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by small doses of Opium.  
This rule in cont: of the  
cal: Opium will be  
of great utility - Use full  
tong - warm bath. &c.

Use repeated diet -  
light & mucilaginous -  
which the dis: is bad be-  
yond - patient, diet be-  
very small -

Chronic Dysentery is  
attended by red loquid -  
few in the evening - be-  
comes - sometimes costive-  
ness - pain - with of it  
appears the purulent  
discharge. This will  
depend on ulceration  
of intestines w<sup>th</sup> many  
lacteal canals in any part

tion of them. Astringent  
will after be after be bene-  
ficial. Of these the me-  
tallic astringents will  
be the best. I give the  
sulp: iron with fufes-  
to opium - or the sulp:  
of copper. The Action of  
oil or even nitric acid  
from its effects on exco-  
rations may be might-  
fully beneficial - but we  
must correct the action  
of the lines & skin - Sin-  
cal: or blue pill & Opium.  
Let person use flannel.  
Keep his feet warm -  
te. & occasionally the  
warm bath may be  
taken.



Colic

You will find in the book many kinds of colic described - You will thus have bilious colic, Spasmodic colic - nervous colic - These terms are extremely perplexing to the student.

We have colic appearing with pain in the region of the colon without evidence of the bowels being affected or costive. Thus at a lack and not attended with any danger. This disease may implicate other organs & it gives rise to bilious derangement. Now if a colic with pain you had time, must & you will have the colic.

if you had simply along  
with it you would call it  
cholera. & it would actually  
be a case of cholera. It re-  
quires but little dissemi-  
nation to distinguish these  
& hence you see the in-  
utility of these terms I have  
before alluded to. In chol-  
era the stomach is con-  
tracted & the muscular coat of the  
intestines is contracting. In  
this is not materially differ-  
ent from what is called  
of the coat is long contracted  
it will become perma-  
nently so. In cholera as a gen-  
eral fact you will have  
costiveness & seldom vomit-  
ing. In dysentery there is a  
close resemblance to this

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Discard - In Dysentery evacuation is mostly taken from the lower bowels and there is a retention in the small intestine. This arises from a constriction of muscular coat of the intestines. Dysentery may thus be called colic with tenesmus. This is the only distinguishing mark.

In an autopsy you would find some difference - in Dysentery you might find ulceration while in colic you would probably find an inflammation or lesion in the peritoneal covering.

Colic does often depend on inflammation. It generally produces diarrhoea by



nerve irritation. This arises from morbid contractions of muscular fibres. These become distended by this action - This produces an inability to again contract. It is this which will produce great lesion of the nerves & will destroy life. I have post mortem examinations can discover no trace of this kind action.

It has been said that this is at that time when the infirm become nervous & as they progressed they became nervous & that when we were called to a patient in such a case there were no symptoms of infection that we should treat it as one of irritation. Nothing can be more dangerous than

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This. Colic now arises from  
inflamm: & inflammation is a  
secondary affection. This  
may not always come  
on - but when it does  
you can easily see  
that we will have some  
thing very serious added.  
Our aim therefore will  
be to anticipate this  
occurrence.

When does this inflame  
occur? If in the stomach  
low mental: you will  
have dysentery you will  
see. On this point we  
facts are wanting - but  
from my experience is  
that our own in any  
one of the lips. But  
that is what I like to

occur in the mucous. & more frequent in the serous & muscular. & will in some cases give rise to peritonitis &c.

You will observe that a morbid action of peristaltic action will constitute colic &c. When an intestinal hernia becomes strangulated by rupture like that of colic will be the consequence. Therefore in a case of colic don't readily yield to remedies, you should suspect hernia &c.

You may have the intestine folded in an abnormal manner. call it intussusception or intussusception. When this occurs you will have symptoms of colic. You



will admit you sometimes  
 and the strong hopes  
 of affording immediate  
 relief. In many repeated  
 trials you will be disap-  
 pointed. The diagnosis  
 is in this case is not  
 easy. Thus again we  
 have bilious colic  
 giving rise to the most  
 painful spasmodic  
 colic pains. But you  
 must not confound  
 with a case of colic.  
 Then again we have  
 operations in the bowels.  
 These appear in balls of  
 hair or short fur or hair.  
 These are not incom-  
 mon in brutes. Dr. Mor-  
 son the third has written

The best-work on this subject.  
 This constitutes enterocolitis.  
 The symptoms too well  
 resemble those of colic. You  
 will have shivering in the  
 rectum which may be called  
 a permanent spasm. &  
 then again you may have  
 bloody excrements or tumors  
 or a thickening of the in-  
 testines which will almost  
 close the canal. You may  
 detect it by your finger or by  
 a bougie. These will give  
 rise to the phenomena of  
 colic.

These then are some of  
 the affections which resem-  
 ble colic —

Cause. Constipation of the  
 bowels predisposes us to this  
 malady. This is nothing more

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There is a deficiency of the peristaltic  
the action & is attendant on  
many diseases - as dyspepsia &c.  
Improper habits of diet & dis-  
courage habits - anxiety of  
mind - hard study - neglect  
of a regular intestinal  
habit of evacuating the bowels  
temperament also influences  
it - The bilious temper - a  
morbid action seated in the  
rectum or in the muscles  
about it - a kind of retention  
morbid sensibility of the sphin-  
cter ani. or a spasmodic  
or irregular contraction of his  
muscles - These are the causes  
which give rise to constipa-  
tion - In constipation there is  
secretion of the mucous matter  
of bowels - Great discharges  
from the other will in



and asthenia. but strength  
in warm weather the secretion  
of bile will be abundant &  
when this is the case constipation  
will not be present.

Constipation is one of the  
predisposing causes of colic.  
Hence it will be our object  
to remove it. Our object is  
the first place will be to  
remove the remote cause -  
attend to the patient's habits.  
Endeavour to let our patient  
attend to regular coac-  
tations - his diet - water  
but food as will excite  
the bowels into action. The  
great colic producing  
potatoes of a  
relaxing quality somewhat  
resembling that of jalap.  
When it blends with the  
other ingredients. Some food  
the great potatoes are

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Inilabi for costu, injus.  
Corn bread is now apper-  
sient than any other.

Med. treatment. You  
will be obliged to give me  
but up on the other treat.  
I shall depend more. I  
will and you found de-  
sires. They are all in-  
fallible cures. Blue pills  
finely powder aloe aa 48 gr.  
Opium 11 gr - make into  
a mass & divide into 36  
set drops over the last  
upon supper. 13 blue pills  
pul. Rhei aa 48  
R 12 gr - make into a  
mass & divide into 36  
pills - 18 gr 2 ant. ant.  
blue mass & aloe aa  
48 grs. This is more ojer-  
ing on the bowels - 28  
blue mass - aloe - 48 grs.

aa 10 grs. This acts ac-  
 cordingly. In some cases you  
 may use either the pro-  
 mula. Give these pills so  
 that they may operate  
 in the morning. Never  
 give to act actively, let  
 them operate as laxatives.  
 When recumbent let them be  
 given at bed time when  
 hard let them be taken be-  
 fore sup. The Minc of  
 Rhubarb & Aloes of the Ec-  
 hemerous is unique in  
 constipation habits. An  
 infusion ofenna & the  
 tannin. Zpp solution & Zj of  
 enna. a good laxative  
 & which is given to the  
 bowels. You may combine  
 a good aromatic. It is  
 a good laxative again



making a constant and  
 more kind of stimulation.  
 In const: in col the  
 is a tendency to infla-  
 tion with fine Magn-  
 -esium salt lakes in  
 the morning - a small  
 quantity will operate in  
 rather high diluted -  
 when you take this  
 saline cath: in summer  
 temper: you are less  
 injuring -

When you find colic  
 in persons habitually  
 costive your first object  
 you will do is to obvi-  
 ate the habit.

You have an ind-  
 igestion is called flatulency  
 or wind colic - what

4 Mrs. The patient com-  
 plains of dysuria, pain  
 from 2 inches upwards.  
 Despondence some what  
 aggruent. Last case in  
 a female. Muscles in de-  
 pression. He has been  
 lying in the house. When  
 there comes with the  
 has been exposed to cold.  
 or from acid or cold  
 drinks. Or from  
 diet. This arises from  
 accumulation of gases  
 &c. It is therefore  
 in arises from <sup>an inability</sup> the mus-  
 cles lose of integrity  
 from pressing out the  
 flatulency. That press-  
 ure over the part will  
 afford relief. It con-  
 sists in a morbid state of

The nervous function - or rather weakness. It may  
 prove fatal in weak  
 nervous habits.

Treatment - being a  
 paroxysmal dis: you must  
 prevent the return of this  
 paroxysm. Cold stimuli  
 both internally & exter-  
 nally will relieve the paroxysm.  
 A glass of wine -  
 infused of peppermint - cin-  
 namon &c. Then act by stim-  
 ulating the mucous mem-  
 brane water will relieve  
 it - warm applications exter-  
 nally - pressure at the  
 summit - projection  
 of infusion of above  
 on corpus. When these



Don't need you may  
 give them or bottles of  
 Candians. & you may  
 look! eat! with the opinion  
 to correct the functions  
 of the liver. & it may be  
 beneficial & a pleasant  
 access.

Preventive means - at-  
 tending to the state of the  
 skin - regulate its tem-  
 perature - plan well to be  
 covered next the skin - free-  
 lions - with in which  
 the body is to be held  
 the sitting up of the body  
 wood - or, if possible, the  
 bare may resort to the  
 sunlight - The night vision  
 - early to rise with abas-  
 te.

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Bilious colic, iliac. Hyster-  
ic colic & colica histonica  
will next demand our  
attention.

Colica Biliosa. You have  
seen head of persons dying  
with b. colic. & these per-  
sally men & of a sanjo-  
con habit & good livers.  
Now w<sup>h</sup> colic occurs in  
such individuals we may  
expect this form of it.  
Hence you see colic is  
modified by cond. of the  
patient. In b. colic is  
is a high tonic of the  
system. The prostr. of  
nutrition is carried  
to last energy. Now  
when it occurs more  
contract. of bowels

stomach & you have the  
 variety of colic. but talk  
 from the fact of its pla-  
 full being. This is common.  
 I say & you will find  
 a case of flat. colic. In  
 this form of Colic you will  
 find: some believe some-  
 times it is due to tightness  
 produced with in the bow-  
 els. congestion of the bowels  
 accumulation. distention  
 & then we see of more or less  
 inflammation in the bowels. &c.  
 may arise, & is a disease  
 or 2 diseases. Indeed  
 inflammation is very apt to  
 be developed in this dis-  
 ease. There are two species of  
 the same class, or forms of  
 disease. They often run into  
 one another & the difficulty



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of birch: Now will be diffi-  
cult.

I will not dwell too  
long on symptoms of this dis-  
ease. You observe a person of the  
plethoric habit who is  
in a state of exaltation & in-  
tention. with occasional  
liver & stomachic &c.

Treatment - In most  
cases you may begin with  
opium or rhubarb & calomel. But  
if you find the pulse and  
the heat - &c. too high you  
will give Op. In such  
cases is absolutely necessary  
& should not be neglected.  
It will remove the tendency  
to inflammation. If  
you neglect it you will  
find it difficult to move  
the bowels. Inflammation will  
come on & your patient will

die without having his bowels  
opened. After you have  
your ten men give him  
calomel. & oil &c. & then  
the bowels. You may do  
this by injections &c. Now  
this embraces nearly the  
whole of what I intend to  
say of the treatment in this mal-  
ady. What was said before  
of emulsion, & arm applica-  
tions - &c will be proper  
to be recollect'd here.

It is not by purging  
in these cases you cure your  
patient. This occurs after your  
patient is relieved.

Hysteric colic. This was  
long ago treated of by  
Ellenburgh. You will find  
what he has to say on  
Hysteria in his essay on  
small pox. &c I think is the

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but it has not been presented  
to the profession.

Accompanied of a lymphatic  
temperament & who are  
generally great sinners will  
have hysterical colic. it  
corresponds to the bilious colic  
in men. You have  
violent gripping pain with  
vomiting of green feces  
bile - the bile always has  
something in the stomach.  
In this there is not much  
danger of inflammation. You  
observe then it is different  
from the bilious colic in men.  
I have seen many cases  
of this colic.

Treatment. I combine with  
stimulants & tonics. I com-  
bine cal: & opium. ℞: 11gr  
cal 1gr. & add some aromatics



stimulants. In some cases  
 it will be necessary to give  
 the opi: & aromatic alone.  
 The list of Cavendes. It  
 annamoni, le, & exmurt.  
 casto. Valerian & any of  
 the <sup>best</sup> carmodio stimulants  
 are always useful. But  
 these will have to be  
 changed. You must un-  
 derstand a stimulant  
 will produce a decided im-  
 pression to day, to morrow  
 it not. Hence it be-  
 comes your part to change  
 from anti-carmodio. This  
 seems to be a loss of the  
 nervous system. Sometimes  
 great benefit will be  
 derived from anapisms  
 but will afford relief  
 in the nervous system.

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Bolical Pictonum. or colic  
from lead. because it is produced  
by lead. Colic is the specific  
disease of lead as salivation  
is the specific aff. of mercury.  
In some countries in which  
plants grow and this dis-  
eases frequently. When any  
acid comes in contact with  
the plants we will have a  
salt of lead & soil acids -  
it act on layered vessels the  
dis. under consideration will  
be induced. The carbonates &  
proto carbonates of lead give  
rise to this disease. There  
are frequent fumes float-  
ing in the atmosphere &  
may be inhaled into the  
lungs & again be swallowed  
by being mixed with the  
saliva. Persons from sleep

ling in newly painted rooms  
 has taken this dis. It com-  
 bing when this metal is  
 volatilized. It too undoubtedly  
 acts thro' the medium of the  
 skin. It gives rise to the  
 Malady by the constant &  
 gradual introduction into the  
 system.

The dis. universally af-  
 fects the system. There is par-  
 ticular of the loss of the mus-  
 cles. There is a disordered func-  
 tion of organs thro' out  
 the system. There will some-  
 times great serena. The stom-  
 ach will have lost its tone -  
 & the bowels will be disordered.  
 There will be great pain  
 seated about the umbilicus.  
 The abdomen will in many  
 cases be flattened & that  
 the pulsation of the aorta



will be felt. but again the  
will be a distention of the  
int. the will be pain in  
it back. There seems to be  
a deeply smothering of all  
the nervous energies.

The post mortem exam:  
will show exhibit much  
organic lesions of the  
int. You will sometimes  
in the bowels a want of  
the natural colour, a  
whiteness of ap. but  
occasionally there will be  
traces of inflammation in the  
bowels - spinal marrow  
& in the brain. This dis:  
is strictly speaking a  
neuralgic aff. with  
paralysis.

Treatment. Now as long  
as the remove cause exists  
you cant remove the dis-  
eases if you put the  
experts - or the who at-  
tend, or had manufacturing  
to you will advise him  
to quit his trade.

As in this dis: will  
seldom be called for - yet  
when the bones are diffi-  
culty moved we shd be  
in consid: quantity & will  
predispose him to the act  
of care. When the abdomen  
has fulness & distention you  
may sh. cup & bleed.  
Or only the latter accord-  
ing to circumstance - but  
object will be to allay  
the morbid action & have

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notes & active call.

Of course it is said with  
respect to the movement of  
feet of the bowels - but  
the open way may be  
calculated suffering in some  
instances to cause salivary  
salivary. Tho' I have seen  
you find it true.

Senna & salivary is a salivary  
bale call - the way  
admiral's balance of Gold. or  
any of the stimulating balivary  
course. You may find  
further, I am sorry.  
Salivary. You will  
find the same benefit  
from injection & in some  
cases an admirable service  
is done. Always consider



the Neutralization of cal &  
 then water you have  
 already in dis: - After  
 the dis: has abated you  
 may soon have pass:  
 to a rich Sulphur water.  
 In the books you will  
 find many remedies for  
 this dis: - but I have  
 presented you with the  
 best & my experience  
 have pointed out to me.  
Functional Arrangements of the Liver

Caparing from those  
 on a table who: mind is  
 the intention to our course  
 to consider the dis: of  
 the liver - we cannot at  
 present speak of the  
 dis: of this organ as a

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Inflamm. - There are indeed  
two distinct aff. of the  
liver with infl. - One  
we can then be. What  
else then can arise we  
will not be in the way  
or chronic? For the ques-  
tion I would direct your  
attention.

You are in doubt  
and acquainted with the  
anat. & phy. of this or-  
gan - It has two func-  
tions to perform - that of  
the blood of the chylopoietic  
organs goes to the liver - the  
liver secretes of the venous  
portal goes to connect this  
system by dig. control of  
secrets - Hence we call  
an organ of the digestive

In this respect it resembles  
 the lungs. The tubes  
 of the venaportae are in  
 millions of little tubes.  
 The office is to trans-  
 fer the bile to the biliary  
 duct. This it forms from  
 the blood of the venaportae  
 & the remaining portion of  
 this blood is sent to the  
 venaportae. This  
 bile then secreted is, passed  
 into the gall bladder. We  
 have now two fluids in  
 the liver. two kinds of venous  
 blood - arterial blood &  
 the biliary fluid or the  
 bile. It is evident that  
 the blood from the viscera  
 of abdomen must be diffused  
 the venous blood arrived for



The arterial blood of the hepatic artery. ~~good~~ but of this has been formed the bile (i.e. the portal blood).

Now that we live far in the future of human civilization, it is evident that diseases become developed in the abdominal organs. For example the liver is affected by it in the future - the origin of this portal tree. Consequently the liver in connection of those diseases. You may find in these organs inflammation, torpor or loss of energy of function. This is a matter of time

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heavy & important. We  
will know the in-  
ternal case of subjects  
between the abdominal  
organs. Now it is nec-  
essary to understand the phy-  
siology & the pathology of  
the pathology.

We may refer to  
the other function: now, to  
the function of transfor-  
mation. This seems to be  
a change of the elements  
of the blood into a new  
fluid. The amount of this  
is very great. This dist-  
ribution of life from the liver  
must be considered. It  
involves with all the  
forces - it is of the kind  
as in large quantities

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2. 31

The laws have been amended  
to conform. This we would  
like to conclude soon.  
The next amendment of the  
bill is sent to it. This  
too will lead us to the  
the point of having  
for matters must be paid.

Here we have two  
great sources of disaccord.  
Hence I or behind me  
dis: may arise primarily  
in the lives. & that need  
this may take place  
in none in place. Taking  
place then. This is the  
point for you to investi-  
gate.

Now it is England.  
I apprehend in the new  
now about it. There is  
phenomenal presentation.



You have from Chas. May  
 new sections - formally  
 set up. May not the  
 same of line be explained  
 as an inflan: in its  
 respect? Now it seems  
 to me it may. I may  
 be analysed in its  
 cases de without inflan:  
 It is true that it has  
 its limit: can be de-  
 lined without inflan: the  
 line seems to be rising  
 in considering it. It is  
 his organ independent  
 of the inflammation.

In various parts of the  
 body the organs may  
 be affected without affecting  
 the functions of de-  
 cision. This is the case

placed in the Lenses - it  
 may not be seen in  
 increased quantity yet the  
 posits of cal: matter  
 will take place. And  
 this may take place with  
 out inflammation. It may  
 wholly depend on loss or  
 morbid action of nerves.

This seems being the last  
 thing place in the skin.  
 Its function will be dis-  
 missed or entirely dis-  
 rupted & no inflam. will  
 be there or any where.

Obstruction to the flow of  
 the blood in the large  
 canal will find rise  
 to disorders & no inflam.  
 will be prevented. Of  
 the same kind we have

many instances. Now  
 then it is an example  
 of great impairment of  
 functional independence  
 of inflexion & of it the  
 head in those who will  
 have to say that it is  
 not in it some more  
 arise in the lined? The  
 vital property of the line  
 seems weak - it is not  
 supplied with many nerves.  
 This want of strong vi-  
 tal power, the blood for-  
 the cause may be ac-  
 cayed in the fund &  
 roots of the spinal cord  
 etc. It indeed seems  
 more than probable that  
 this may arise but  
 without explanation: any who



All the secretions are  
influenced by nervous  
excitations & this may  
be demonstrated to the  
blind. & from this cause  
independ: of inflam: ad:  
dis: may spring up in  
that organ.

An inability to trans-  
mit will be more evident  
but in its effect than  
~~from~~ an inability to  
transform.

If cut: bile arise in  
distant funati: from a  
failure of transformation  
in the liver. but is the  
is inflam: in the time  
it proceeds the fall: of  
transf: - you will have  
a new class of phenom:  
appearing - & if the fall:

did not you will have  
another kind of morbid  
phenomena. Thus you  
see Bil: may be, made  
acid from two sides in  
three ways. But we  
are now only consid: Bil:  
of liver arising without  
inflame.

In the 1<sup>st</sup> case if the  
Bil: is not acid in diff:  
quantity we also have  
the not acid, but in  
the blood. When it is acid  
it informs a furnace.  
but is this the only method  
of its acid? This I know  
it is but this is sufficient  
acid of Bil: we have the  
acid: of the elements, &  
the Bil: in the blood. And

2<sup>nd</sup>

it seems a great need to  
draw something from  
the blood relation to  
the vital functions -  
The effects of the loss  
in the blood as seen in  
jaundice is known to  
all of you. There is a  
failure of all his functions -  
his senses both in the  
ethical & corporeal.  
His imagination is ex-  
cited morbidly. He con-  
siders that his days are num-  
bered. That his friends  
are anxious to remove him.  
The feeling from his  
disfranchisement all  
this is the horror of  
age its symptoms and



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rise to it. A strong  
healthy chyle will be  
formed. The bones will  
conjoin for the want  
of their nat: stimuli.  
The whole system will  
sink. In for the absence  
of the natural stimulus  
of the fluids & the intestines -

If the liver be deranged  
in its secretory function we  
have seen it there. What is  
an emanation of the  
liver: of the blood in  
the blood coming out:  
we have in the excre-  
tory. It sometimes has  
in the blood but that  
has been the case. But  
I did not not attempt  
to point out all the

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Arrangement being out  
of the state. I only wished  
to show you the fact-  
to show how it travel  
over the same ground  
on another occasion.

Now after having  
spoken on this point we  
come to speak of those  
who arise from a want  
of bile or from its unhealthy  
quality in the bowels. When  
there is a fault of one of  
bile in the liver there is a  
want of ordinary stimuli  
to the bowels. You  
must have a fault of  
some part of the  
body that is symptomatic  
with the bowels even

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He lives itself feels it -  
They fall into a state  
of along - this by implication  
of moves He lives with  
on an atomic state. Then  
of He lives just: even as  
with me, if other it will  
and the like with He does  
order. & He will be  
an atom in the bowels  
of miles he comes to He  
lives & still more than  
its action.

Now He off: coming in  
the, act in connection with  
this state. & a power of  
the style found in this  
state - how in, in fact it  
of course must be.

He goes with the change  
from hard kind. From  
this absence of life we will



Low dis. in the abdomen. Dis.  
 cur. the view have Dys-  
pepsia. Hence dem: sec:  
 of bile <sup>kind</sup> may <sup>and</sup> <sup>food</sup>  
 be dyspi. And the source  
 for pain in the dis:

Mer: - We have constipa-  
tion & diarrhea from  
 this morbid or dem: sec:  
 Both of these may be found  
 the absence or critical sec:  
 of bile - The stools will of  
 resemble yeast. both in  
 infants & adults. They will  
 kill sp. of life. Worms  
 or verminous dis. are just  
 multiplied from dem:  
 sec: of bile. or a secre-  
 tion of a bilious fluid  
 to blood - that it will  
 favour the generation

of worms. 2<sup>nd</sup> In this 282  
cond: of liver the mesenteric  
glands will become enlarged  
down as the B's old say  
they arise from infl:  
this may sometimes be  
the fact. but I am con-  
fident it may arise  
from bilious action, met.  
In this subject Dr. Aysc  
has written an excellent  
book. In this way we  
can have quercus num-  
ber worms. This is the reason  
why all the horse  
will see you that mi-  
nute down of cal: and  
always recom: in this dis:  
3<sup>rd</sup> The liver is a dis: it  
nominal melanch. it  
consists in a dis: of  
black bile from the  
bowels. This dis: to have

And I am led to be-  
 lieve it is a good independent  
 of inflammation. Sometimes it  
 consists in the formation  
 of red or reddish & colour  
 like. In it proper it  
 will become yellow. but  
 in all stages of the dis-  
 it may be called black  
 like before you have  
 examined it. Now this  
 is evidently a dis. from  
 the port: dis. yet it  
 may come from the  
 mucous coat of the  
 lungs - but if you ex-  
 amine it you find  
 it yellow. I believe it  
 is from the enlarged  
 state of the liver & the  
 this shows out this



enlarged glands of the  
 veins of the neck & of  
 the liver & spleen: & as the  
 all: progress the healthy  
 secretion of the bile will  
 become more obvious. If  
 the patient goes on to a  
 recovery the bile will be-  
 come more & more obvious.  
 There may & often is a  
 chronic inflam: connect:  
 with this dis:.. But I am  
 convinced it has no  
 come on without any  
 inflam: preceding the  
 dis:.. If any person says  
 it arises from inflam: he  
 is wrong. But I am aware of  
 this for this infl: at on  
 him. In the 6<sup>th</sup> place we  
 have hemorrhage aff:  
 from a morbid or irreg:

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Ac: of bile. This & some  
other acids arise from hem:  
Ac: of bile. Hence it becomes  
the remote cause of hem:  
orrhoids. This bil: is mostly  
after com: with disturbed  
funct: of liver.

We sup: the skin is  
exposed to cold falls into  
cond: of a long - cold is trans-  
mitted to the liver. The  
first impress: is made on  
the cells. & as a conseq: this  
arises liver: is injured: of the  
liver. These organs will  
symp: with the liver.  
If then the liver be diseased:  
there will derangement in  
stomach & intestines. If  
the bile be not ac: in  
suff: quantity it will

be carried thro' the system  
giving rise to disordered functions  
in other organs. You see  
then there are various modes  
in w<sup>h</sup> the stomach &c will  
be dis: by irreg: action  
of the liver.

The movements of the  
abdom: viscera are comp:li-  
cated & hence will there  
dis: can be complicated  
& of the pathology.

We come now to the  
part from the Colic  
viscera. We will not be  
content w<sup>th</sup> enu: the dis:  
as in a part but to ascer-  
tain the source of the

From the liver & come  
disord: in its secretory fun: &  
we have a good: acc:  
of the dis: - Dr. Ferrius



has dwelt on this point.

The Overlook. The Hydrolic part of it. When the fluid is in acc. in the abdomen, and it is the fluid in the under-ones this acc. must be bent. We might just as well speak of a distention of the cutaneous membrane as of a cutaneous. The latter is a very good notion. But it is in the function of the fluid you have discovered the arrangement. It is significant to live in what is the skin or the blood the dis. on one. We will correct the fact of the other will reveal the truth of a continuous

vertebrae. This will not  
 being applied to the same  
 it will not be a reap. This  
 dis. is oft of the nature of a  
 a dist. death of the  
 lines. It may arise  
 from the blood. Pro-  
trasis - dearly uttered is  
 another of a solid and  
 up in the blood. It will  
 of the blood when the con-  
 dition is corrected. Many  
 injuries to an oft con: will  
 disordered funct. of the  
 lines & will eventually  
 when this funct. is restored.  
 Some good surgeons but  
 poor theorists will at-  
 tend to this organ. In  
 this I have not book  
 you will find much

I value on this subject.  
 We have about the head  
 many aff: such as ap-  
 parently referable to the  
 disord: of liver. We have  
 chronic ophthalmia -  
 at which we are called to  
 the inflam: is improved.  
 We have also had  
 achs - This is a neuro-  
 sia of the 3<sup>d</sup> pair of  
 the nerves. This aff: I  
 have seen arise from  
 a failure of the liver  
 in its secretory & its  
 transmitting powers -  
 An indiv: has been  
 head hon: - the  
 liver becomes aff: -



The skin - There will  
be a want of transfor-  
mation. As it is in this skin  
all to the skin & the  
will transform & the aff:  
will disappear.

We have hydrocephalus  
appearing without  
inflammation. The pulse slow  
& feeble. Skin not hot  
to the touch. Murmur - There  
is this disease we find  
a bilious function deranged.  
The brain become opaque  
theoretically. It is said. Now  
when the bile is not  
seen in 12 hrs. The blood  
destined for this sec: bile  
is conveyed into the  
liver. & may be seen  
to move in the brain

or in the abdomen. And  
you see we may have  
Hydrocephalus from a cause  
one of sympathy & another  
from failure of transpor-  
ting function of the liver.

In the brain it is of course  
have Hydrocephalus.  
Melancholia &c. These are  
often dependent on disor-  
der in the liver. If it be  
agent in the liver you  
will have it agent in  
the head &c. & vice versa.

In the muscles of lo-  
comotion we have chorea  
hysterica - convulsions -  
These are oft connected  
with the liver. When

You have seen of this  
 Air: You are not to sup-  
 pose that it arises di-  
 rectly from the liver but  
 it is derived from the  
 stomach: acting on the  
 brain & spinal mar-  
 row. The slowishness  
 of the muscular  
 system is often owing to  
 a failure of the liver to  
 throw the biliary fluid  
 from the liver.

We have as I have  
 sometimes connected with  
 disordered liver: & the  
 liver. but aff. of a  
 more serious kind  
 takes place in the  
 liver, from this an  
 inflammation in the substance



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tubes - we have dyspnoea  
consumption depending on  
distended lungs of the  
lungs - from the same cause  
and have hydrothorax  
hydropericardium too  
too with the disease  
of the heart developed  
by the bilious blood com-  
ing in contact with its  
cavity - Had it with  
it is, signs of neuro-  
bilious ten, weakness &  
degenerating habits, you will  
have palpitations, &  
of the heart. But or-  
ganic disease from  
this unnatural stimuli  
will be set up in  
the heart.

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The relation betw. the Kidneys  
 & liver - <sup>is intimate</sup> There is a change  
 in the sec. & secretion of bile  
 we may have a changed  
 colour of urine. It seems  
 to be an office of kidneys to  
 eliminate the unperfected  
 bile. The kidneys & liver  
 are con. by nerves. by the  
 great sympathetic which  
 arise from the calic, plexus.  
 They send very many cross  
 the same organs. yet they  
 are somewhat distinctly se-  
 parated yet they are ner-  
 vously closely connected. Hence  
 an increased sec. of urine  
 as occurs in diabetes will  
 arise from dis: of either.  
 lived - we may also trace  
 up: cal culous dis: to  
 this common cord: of the  
 liver. Of the facts of the

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urinary organs - As we  
have our vesical bladder  
obstructed by urethrae also  
con: with dis. of the  
also morbid sensibility of  
the testis, a kind of  
neuralgia which can only  
be cured by sedating the  
funct: of liver.

In the female abdominal  
system we have dis: con:  
with disord: funct: liver  
which there is chlorosis and  
will have the liver much  
disordered - Morbid affections  
menstruation is not pre-  
sented & we will find  
scarcely a local disease  
of life in the intestines -  
Our object here must be



to correct bilious humors  
 we are to take good  
 emmagogues. until we  
 do this. If the Menstru-  
 is established, it is of  
 suppressed, we will of  
 find the liver dis- & of  
 the suppressed will ex-  
 fect the liver. & disorder  
 will be carried into or-  
 functions of the body. Al-  
 ways at liberty. Dis-  
 liver is the cause of  
 detained Menstru-.

In general Albus we have  
 when it does not arise  
 from inflammation. we will  
 find the liver, & connect  
 deranged. Our remedies are  
 directed to these organs  
 we have now taken

208.

A general survey of functions  
liable to be disturbed by  
disordered function of the  
liver.

The liver is found with  
various organs in the  
It is most closely connected  
the stomach - hence the  
stomach will most  
easily sympathize &  
it (or it will sympathize  
with almost any  
part - hence you find  
how apt the liver  
may become the  
whole system. But it  
is only the part of the  
work of morbid action.  
If the liver returns  
the blood, passing to it  
liver and will be set up

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& if the line does not  
properly the bones will  
be in a natural condition.

Then again if the liver  
does not secrete bile naturally  
by we will have the con-  
stituent of bile in the  
blood & we will have  
it then going on to  
many affections - as rheu-  
matism & diabetes &c.

It may happen that  
dis. in the first, & cured vi-  
sibly & so the liver may  
produce dis. in a dis-  
tinct form. This sym-  
ptom like disease may  
demand to destroy the  
patient & so the liver  
has returned a healthy  
action.

I don't pretend to  
indicate to you how to



Dec-<sup>18</sup>

Thou orders of the two  
when they do, & when they  
do not - arise from the  
same - of inflammation: be  
acute, impairing its power  
you will easily under-  
stand the affection -  
but if in inflammation  
of a chronic kind - will  
but tell general facts  
it may be that the  
inflammation being so general  
as not to wait for heat  
& arthritis - Hence ~~the~~ <sup>the</sup>  
urine must rise differ-  
ently to the vol: it be  
inflamed or not - your  
urine demand advice  
you don't know - it is  
advised antiphlogistics  
or not. I have been

20/1/18  
cases in which the principle has  
failed & a diff. course has  
been pursued.

A sub. agent's influence  
does not require an active  
revelation of course as when  
it appears in any other  
form. If we happen to  
omit them for a time  
we will seldom do much  
harm. but if we in  
many cases resort to an  
active revelation would be  
much more frequent to mislead.

Reat. In conduct is  
an admirable remedy in  
this world. It is true. It  
will give notice to  
the evil. - & dispense the  
truth to all. - & without it  
will be very useful. - &  
also if the lungs are dry.

It will exert a powerful  
advantage -

Caustics - I admit  
that caustics may have  
done injury. When there  
is a slow infl. caustics may  
do harm. but when  
the sensibilities are only  
blunted. & there is merely  
disordered function. caustics  
are our most valuable  
remedy. They will pro-  
mote the infl. to the point of  
crisis. They will stimulate the  
liver - they will en-  
courage the function of  
the liver & awake it  
a new action in the  
whole abdominal organs.



If there be a disposition  
 to dis: of the brain - or  
 nervous system. as shown.  
 In: we will obtain great  
 advantage - they here  
 act as counter irritant.  
 They shd be very ac-  
 tive - they shd generally  
 be cal: also. I can see  
 many - fallacious - you  
 must be paid from  
 the refrigerant cast: as  
 salted. When the dis:  
 is of a very chronic kind  
 laxatives - You blue pills  
 also so - will be the  
 best. choose those w: act  
 mildly - But in case  
 of phlegmatic habit -  
 brain oppressed - the

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Distilled de Cholera, ruy  
active call: as cal: &  
Jalapa. The compound  
of Jalapa - Cinna &  
Marru wine mixed ad  
ded wine to food.

Alterating & deobstruents

Med: given in motion & does  
which act insensibly by al-  
tering the action of a part  
or organs, we call these alter-  
ative doses - or deobstruents.  
Cal: & blue piec. & Opheac:  
ant: iulv: & Rheum and  
the principle activates of  
the Rins. When they act  
mildly & given in mixture  
portions & increasing the  
quantity of success so. If  
this proceeds you find it  
is less than 92 - in che:  
then you will find 180 & 200

The patients' health will  
 improve - & - Cal 11 gr.  
 Opca 14 gr aloe - Vii gr  
 mix & divide into pills  
 Xvj - In children with  
 Inflamed Abdom. - Dis:  
 Disentery plan & 2 - One  
 pill at night - Xvj gr  
 blue mass Xvj Rheu 8 gr  
 James pul - mix into  
 Xvj - Dose 1 gr. to child -  
 When there is great nerv-  
 ous irritability you  
 may comb. with these  
 cert: things calculated to  
 allay irritability - You may  
 add either cam 100 24 gr.  
 Give 1 or 2 pills at night -  
 or 16 gr or 8 gr Extr: of Hy-  
 oscarnus. or 32 atrop-  
 or 9 gr Sulph: or Treas  
 Morphia. Dont come



Opiate as much as  
 Opium. Now in all the  
 formulae you have in  
 the book we act on  
 the liver. The Gallbladder  
 the Bile, the Membr. of  
 the bowels & a something  
 to tranquillize. Now  
 you will find the ad-  
 min. highly beneficial  
 in a great variety of  
 chronic affections of the  
 bowels. Liver. Stomach &c  
 They are not debilitating  
 but under this  
 are good patients with  
 good strength & the  
 high spirit: and  
 in consumed. The

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extract: of Gentian will  
be the best substance w<sup>h</sup>  
you can mix these pills  
with.

Sometimes you will  
want a cathartic: most  
active - Aloe - extract.  
Olan: com: i. Colocyn-  
cal: aa Xvj - Part:  
Ant: 2 gr - mix & div:  
into Xvj pills - give  
according to circumstances.  
Of all the med: w<sup>h</sup> you  
can use in this kind  
of cholera, & dysentery  
medicines are the most  
valuable med: we possess  
w<sup>h</sup> the most sub: acute  
inflamm -

Antispasmodics - For  
minor cases: I have

Disordered liver is cause of  
 head & worms. To cure  
 the liver will be  
 our ultimate cure. but  
 prior to this we must  
 give med. to expel the  
 worms. They are produced  
 by improper diet & more  
 generally connected with  
 disordered liver. The best  
 med. for the expulsion  
 of worms is the Digested  
 Magnalantico. The oil  
 of the worm seed. called  
 the chymodium and  
 useful when the bowels  
 are torpid. admin. to  
 an empty stomach &  
 followed by a cathar-  
 tic. Cal. is an excel-  
 lent remedy for worms.



Not so effectual as the  
 remedies. The intention is  
 when there is no inflammation  
 of bowels. Albes, w<sup>h</sup>  
 warm and in the sec-  
 tions, comb. with calomel  
 is a good remedy. It is  
 useful for removing  
 scabs and the best  
 remedy.

Peppermint - The regular  
 honey with aromatic  
 intention. Mustard seed,  
 - seed of rind. Now  
 w<sup>h</sup> there is inflammation of  
 stomach & these medicines  
 are contraindicated. The  
 white mustard seed is  
 decom. in dyspepsia &  
 dis. of the liver. it acts  
 slightly on the bowels.

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It is particularly adapted  
to lymphatic temper.  
It amakes the torpid  
energies of the stomach &  
bowels. With respect  
to Dept & cath: of Bow  
Combs: The Ocul: use  
an. aromate. I seldom  
find it in the morning.  
I first find it before  
dinner & at night  
& after a while find it  
in the Bow in the morn-  
ing. The system becomes  
habituated to its effects  
of the Ocul: - so it is  
near, find as much as  
from 6 to 10 gr at a  
dose. The third: use  
the Combs: with the

alterative medicine -

Or where it is

much more used and

Or can be used at the

same time with aduan-

to - to show the ef-

### External Stimula-

tion - It is in the

most advanced with aduan-

to - You may show it

in a way that cannot

produce in any other way.

The effect is exceedingly vi-

derable - it will be by

all - last - but you

feel almost - to be leav-

ed - You may see

a great deal provided

you persevere until you



3/2

do accite it to sensibility  
I am well & a few words  
next to surgery of the  
foot. Frictions should be  
made with flax oil  
The external use of the  
Acid. Mur. acid bath  
will be highly beneficial  
Take equal quantities of  
the acids & as much  
water as bore. Then  
add it to hot water  
& apply to skin with a  
sponge till it is dissolved  
The skin will bear the  
water very acid. The water  
bath will often be  
useful. In the case of  
diseases always use the  
cold & warm bath  
This has a counter effect  
in another in the treatment of the

## Biliary Calculi

The bile is subject to inspissation. & thus, will become so hard as to resemble a stone. They are of various sizes - from a pea to an inch in diameter & they are also of various degrees of consistence. They are never so hard as a urinary calculus. They are sometimes found in the biliary ducts, but more frequently in the gall bladder. While they are present they cannot prevent their existence. We have them occurring at the age 32 years when the patient is then affected with Typhoid. He has pain in the stomach his complexion

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allow. Indeed this state  
we may find some  
lying in the full duct.  
The well as a by-cough in  
the full duct well  
be stimulated into con-  
tractions to push them forward  
into the duct. The organs  
are soon congested.  
In passing this into  
the duct - & into the du-  
odenum, it may irri-  
tate the tube & excite a  
contraction of a kind which  
will give great pain in  
the nerves felt before.  
Some of the pain is of  
that kind which does not  
fasten the moving on-  
ward. The seat is  
general in the epigas-  
trum extending to the



light hypochondria. The  
Patient with mind has  
has cholera - Then will not  
always be vomiting & nervous  
P. 11 - The will be chill  
in it, of an amount to  
a complete rigors. In  
exam: his pulse is not  
much disturbed - It may  
be slowed - but seldom  
more frequent or present.  
By pressing over the slow  
beat you will relieve it.  
Lain - You will now  
enquire in to patient's  
former habits & I will  
have them with me  
present state -

Cause - A sudden habit  
consequent to the loss  
of a great quantity of

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in the liver. Effort of  
the mind will tend to  
give rise to face spots -  
This is produced by the  
mind's efforts, especially the  
nervous powers. See

Treatment. We must  
sup. where we can  
ment in liver. We  
will have a tendency  
to remove calant. We  
might mention sup.  
cal. to a good remedy.  
There is one remedy at  
I have not heretofore  
mentioned - to augment  
Sec. of liver. This is elu-  
bricity - it must be  
passed as much as pos-  
sible thro' the duct of  
the gall bladder.

The 3<sup>d</sup> kind of Hemorrhoids  
is a true cancer & callous.  
When we have no doubt  
of their existence. You  
can easily perceive how  
cancerous an effect an  
expulsion of gall stones  
will have stimulate the  
moderum which may be  
carried to the face. That  
it thus exists in some  
kind of calcu-

The passage of gall  
stones are attended with  
great irritation & infla-  
may be excited in the  
liver of the Moderum  
&c. Believing this, I hope  
you will perceive that  
the use of cupping & leeches  
will be required acc-  
to circumstances. &c



3/4.

calent be I juce halid  
"H. of weak & debil-  
tated you will be cured  
of the be weak-nerves  
very excitable - emaciated  
you will not resort  
to any kind of bleeding -  
To relieve pain w.  
inflamm: symptoms are  
not present. You  
will give opium in doses  
of from 2 to 4 gr. at  
night to be able to control  
it with cal. This will  
act on the liver - I say -  
more on the liver & see:  
Now after you have  
over missed your fat.  
in warm bath & you  
have joined friends - &  
you will not be over  
I will do I always

after the B. no mat: but  
 the limbar must or  
 cont: of the patient may  
 be - He will hear B. for  
 now than previously -  
 If symptoms other cont:  
 I will ~~use~~ give him  
 a cath: or an emetic or  
 an emetic cath: I will  
 endeavor to excite the  
 secretion of bile & then -  
 In the beginning I will  
 run his nose. I will  
 pursue other treat: until  
 I had in some measure  
 blunted his sensibility -  
 The diaphanous purga-  
 tion is then most pre-  
 ferred. They have a  
 soothing & anodyne  
 effect - The castor oil  
 or the olive oil has been

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used - If the reduced oil  
he may take a tumbler  
full - This when it  
goes down may open the  
bowels -

External ap: a  
warm water ap: and  
I have before seen  
as counter stimulants -

Now a question well  
occurs can we admit any  
thing that will act on  
these concretions. When  
the human body is  
suffering it is in a  
state that men were  
capable of acting on  
the concretions. Now  
as it is admitted that  
medicines may be car-  
ried into circ: of the liver



we may say it proba-  
ble - that sulphur  
temperature & may as  
be known they are car-  
ried into the urine, but  
they may be carried  
into the liver & act  
on the gall stones -

Indica -

By this we mean the  
decomposition of bile  
into the blood & so forth -  
It may be sporadic  
or epidemic - generally  
sporadic - yet I have  
seen it prevail epidem-  
ically - Hence you see  
there may be states  
of the atmosphere, pre-  
vail which will affect the  
liver -  
Symptoms - a yellow

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of eyes, & pain - turn of  
blood - urine - nausea  
constipation - bad  
formed feces, indigestion  
All - muscles weak -  
sup - resolution of pro-  
state - You wish treat  
of blood & yellow  
jaundice - The yellow  
is easily cured - The  
black is in some de-  
gree, apparently formed  
& more formidable -  
If you refer to what  
I said on Melancholia you  
will understand how  
this form can be caused -  
The liver may be in-  
creased in its passage  
to the bowels - & into

The catarrh will cause it -  
 & this is to jaundice.  
 Gall stones in the pas-  
 sage in the common  
 gall duct will obstruct  
 the bile & it will then  
 be carried into the blood -  
 & we will have jaundice  
 & diarrhoea. A pancre-  
 atic or a mesenteric  
 tumor may also pre-  
 sent on the gall duct as  
 it so it passes & it  
 retains it in the liver  
 & it will too often be  
 congested. Is a tumor  
 of the gall duct or  
 the hepatic duct. When  
 this is the cause the jaun-  
 dice will appear sud-  
 denly. In inflammation  
 of the gall duct there is



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My letter the 1st of  
June sent as to prevent  
the flow of bile - or  
again a retention of  
large accumulations  
of feces in the bowels -  
This is apt to occur  
in pregnancy - And  
it will occur at this  
period - I wish here  
to observe that dur-  
ing the first later the  
is requiring great bil-  
ary dist.

Treatment. As the  
causes are various - so  
your treatment will  
be various. You will  
heat for the constipation  
& relieve it as you would

the Dis. of the liver - At-  
tend always to the mi-  
nute Dis:-

You will often be at  
a loss to know what the  
cause is - hence the prac-  
tic here is oft: in the case  
By feeling up a count-  
ing machine, with the  
San. Janaria Candens.  
You will also find cald  
stems - but not so as  
to salivate.

Some when there  
is a strong secretion -  
will be benefited by  
the clay - The wild cher-  
ry bark - Columbo - Pin-  
tan - The reason is  
that the skin is so  
sore & it is that it cannot

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muscle acid - but is a  
diarrhoea.

Now, when taken the  
the benefit from the  
ability of antacids -

By exciting the action  
of gastric juice in the  
as a great deal of  
food.

Chronic Disturbances of  
the Heart & Lungs &c.

Now an answer to the thorax  
is an enclosed, muscular  
& osseous, & lined by a serous  
membr. - That the cavity  
between it & the abdomen is  
a musculo-fibrous membr.  
The thoracic cavity is dilatable  
&c. The cavity of thorax  
mainly filled by the lungs  
consisting mostly of vessels.



cellular vessels. & these of four  
 kinds. It is the union of  
 the ss. w<sup>ch</sup> make up the lungs.  
 & it is plain you have the  
 great artery, the pulmonary.  
 the & pul: veins. w<sup>ch</sup> may  
 be compared to hepatic vein.  
 then you have the bronch  
 ramifications. & mucus  
 in air cells. & it then lies in  
 that position with other  
 vessels. You then have  
 a small nutrition artery  
 w<sup>ch</sup> may in some at least  
 be compared with the he-  
 patic. The lungs are supplied  
 with nerves by the great sym-  
 pthetic. The p<sup>er</sup>it<sup>is</sup> is situated  
 between the lungs. con: tain  
 the liver, int: artery & veins  
 &c. &c. The heart & lungs  
 are con: by nerves by the  
 same plexus. Then aires

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from the lung the trachea.  
Its ramifications are called  
the bronchia. As the trachea  
ascends it is surrounded by  
the larynx. The opening of  
it is called the glottis.  
In inspiration the lungs  
& ribs are enlarged. Air  
admits to come to rest into  
the bronchial tubes thro'  
the larynx & trachea. af-  
ter the ribs be are expanded  
contraction takes place  
& the air is expelled or only  
part of it. 60 or 70 times  
in a minute the heart con-  
tracts & sends the blood to  
the lungs - It is then re-  
turned to the left side  
of the heart & then so.  
If you obstruct the  
passage of air thro' the

glottis & air will not be  
 admitted into the lungs &  
 the action of the heart will  
 cease. Distribute one of these  
 organs & you distribute the life.  
 The red arteries carry  
 black blood. While the veins  
 of lungs & in the carry red  
 blood. The blood in the  
 lungs is changed in color -  
 we know that air is admitted  
 into the lungs. The out-gas  
 in the lungs is not O<sub>2</sub> - but  
 the oxygen is. & the issue in  
 its acid carbonic acid - CO<sub>2</sub>.  
 seems to be formed in the  
 lungs. It would seem the  
 great function of the lungs  
 is to eliminate the carbon  
 of the blood - at if not re-  
 moved becomes a poison  
 to the system. This is done  
 in the great function of the  
 lungs & indeed the only the



Then are several joints:  
 Subordinate to each:  
 It is a - coughing is  
 one of these & sneezing -  
 in in cases will excite  
 a full respiration & it  
 will be forced out violently.  
 In the throat & organs  
 of voice will excite coughing  
 if in the trachea. If  
 in the nose it will excite  
 sneezing. Now will this  
 be coughing & sneezing have  
 nothing more for this  
 object than to remove  
 the cause that it may  
 not impede the function  
 of respiration. This seems  
 something like a conserva-  
 tory natured - to pre-  
 serve these directions.  
 The cough & sneezing is  
 destined to remove the cause

entire body.

The act of breathing is dependent on the organs of respiration. As respiration fails, the faculty of speech also fails.

The act of vomiting is entirely dependent on the assimilatory organs. Or of evacuation of urine. Failure of the action of the gastric sacculus. The descent of the diaphragm. is all then considerably affected - when it occurs it comes of those organs is enlarged - the abdominal cavity contracted &c. &c. You see the dependence of these organs on the respiratory organs.

The nervous function of the respiratory demands your particular attention.

This depends on the contraction of many muscles - Thus must it is exceedingly con-  
tracted. There are nerves  
at con: the nerves - the or-  
gans of voice - the nerves  
of the lungs.

The mucous surface of  
bronchial tubes has in it  
a sensibility - something like  
that of the stomach for food.  
It has a strong desire for  
air when long deprived of  
it. There is likewise an  
aversion for air for these  
membranes. Many ways  
admit various, but I  
not sure in: will  
be induced. Yet these are  
cases - wh. are not only  
it - The lungs have a  
discriminating sensibility.  
The refuse or third of stems



also I admit another. This  
are facts not well known  
after of import: to you.

The anatomical structure of  
the lungs is closely connected  
with that of the heart. They both  
transform & excrete &  
secrete organs.

What are called the  
viscera are principally the  
organs of the thorax & ab-  
domen. I said you all to  
know ~~organs~~ dis: in the thorax  
or how they affect the  
lungs. It is the various ways  
in which the various viscera  
more affect the thorax -  
1<sup>st</sup> by sympathy - which  
the heart & lungs have  
in both affect thro' the  
nervous connections. 2<sup>d</sup>  
by exercise digesting food.  
The functions are exuberant

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of the preceding plethora  
I conjecture - We will ex-  
amine the lungs & heart & M-  
except that it is im-  
posed to the whole system -

3d by the stomach ab-  
sorbing unwholesome dig-  
ested matters into the blood  
which excite the heart & lungs.

It is well known how  
soon is detected in the  
urine preceding the start of  
its exhalation. In 4 or  
5 minutes it has been de-  
tected in the blood. It  
is in this way that the  
may be absorbed by the  
veins of the stomach & the  
sent into the heart. Hence  
it is some persons after  
eating are much disposed  
to cough after eating &

especially aft. having taken  
unwholesome food.

4th by the formation of  
unhealthy chyl. from im-  
paired <sup>digestion</sup> this, after it is sent  
into the lungs & heart will  
act as an unnatural stim-  
uli. 5th. Dis. in the mes-  
enteric glands. by their not  
performing properly this  
function - in the form of  
chyl. &c.

6th by the liver not  
sec: bile & leaving its ele-  
ments - in the blood. When  
the heart & lungs are irr:  
& in the funct: or organ  
dis: will be developed.

7th - by the liver in  
jaundice - not excreting  
bile & thus the bile is  
admitted into the blood



8<sup>th</sup> By encasement of  
 the liver preventing the  
 descent of the diaphragm  
 & thus affecting respiration  
 &c.

9<sup>th</sup> By disordered stomach  
 exciting sympathetically  
 in the lungs. cough - hence  
 it is not uncommon for  
 indigestion to be acc. by  
 cough.

10<sup>th</sup> By the tendency  
 of the bile in the  
 blood, has ~~a tendency~~ to  
 excite increased secretion  
 of the serous membrane forming  
 now to Hydropericardium.  
 or Hydrothorax &c.

We next come to con-  
 sider the tendency to excite

Dis: the aff: of the lungs & the  
 the abdomen. viscera. by  
 the heart not being able  
 to transmit the blood - &  
 hence congestion will take  
 place in the vena cava -  
 Hence it is now will have  
 great acc: in the ascending  
 cava. giving rise to con-  
 gestion in the abdominal  
 viscera. Malena may  
 be brought on in this way  
 2<sup>d</sup> by sympathy.

3<sup>d</sup>. The heart when dis-  
 may establish dis: in the  
 portal viscera. by throwing  
 blood by its excessive action  
 unnatural to them & thus  
 exciting inflamm: actions.

We con. to consid: the  
 morbid infl: the heart

1<sup>st</sup> by  
 2<sup>nd</sup> by being con-  
 nervously.

2<sup>nd</sup> by deflection of the  
 right side of the heart.  
 When this side becomes thin  
 & distended it will not  
 be able to send a re-  
 blood along the pul-  
 monary arteries.

3<sup>rd</sup> a violent ac-  
 tion in the right side -  
 By producing Parapneumonia  
 or a pleurisy of the lungs.  
 by effusions of blood in  
 the lungs.

4<sup>th</sup> by ossification  
 of the mitral valves. by  
 preventing a free passage  
 of the blood into the left  
 side & hence causing con-



justification. &c. &c.

We now come to consider how the dis: of the lungs may affect the heart - 1<sup>st</sup>. by sympathy - 2<sup>nd</sup> by organic lesion in the lungs & the blood accumulating in the lungs giving rise to pericarditis.

3<sup>rd</sup> The lungs may affect the heart by a failure of the transforming function. The heart then will receive an unnatural stimulus which will excite in it dis: - by debilitating its energies & causing it to lose its normal properties.

This is a subject of the deepest interest to the physician - seeing that many

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The dis: are found sit-  
uated in these two cav-  
ities - the throat & abdo-  
men. Gentlemen, I in-  
vocate it to you as a  
subject of deep consid-  
eration - Think of the  
connection of disease in  
these organs - This various  
symp: - This dif-  
ferent mode of affect-  
ing each other etc.

Cough - Coughing is a  
natural fund: - not, perhaps  
habitually but occasionally  
to expel something from  
the lungs or from the various  
passages - The air is driven  
out forcibly &c. There is  
it in coughing a nat: di-  
latation & constr: of the  
throat - It ~~is~~ <sup>is</sup> ~~the~~ <sup>the</sup> ~~dis:~~ <sup>dis:</sup>

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of this unit: seems to be  
true. The mucous mem:  
oft requires to be relieved of  
the mucous accumulated on  
it. Thus far it is a healthy  
unit. But when it becomes  
constant it depends on an  
irritation existing some  
where in the system. We  
exactly so connective tissue  
the respiratory or air. To  
arrest this unhealthy cough  
it becomes us to enquire after  
the cause

Cause 1<sup>st</sup> Infl: with  
acute or chronic of the  
lung, trachea or the inner  
lym<sup>ph</sup> ment. of the heart, or  
the pleura - of the diaphragm -  
of the liver - or of its ligaments  
& I might add of the  
sac bladder. Hemoptoe  
is a symptom of pulmonary  
consumption - hemoptoe  
hæmoptoe &c &c



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2<sup>nd</sup> may arise from  
effusion of serum as in  
Hydrothorax anasarca &c.

It is the enlargement of  
the areolar glands - or  
in the pleura.

It is the foreign bodies en-  
tering the viscera, the diaphragm  
or resting in the trachea  
bronchia &c. These foreign  
bodies in dusty places  
are liable to cough - We  
may give rise to this

of the lymphatic enlarger  
ment, of the lymphatic  
glands - glands situated  
in the mediastinum &c.  
found around of the  
heart &c. are observed in  
their degeneration - of the  
off: will be it cough  
& you will find it &c.

to detect it -

6<sup>th</sup> Organic in case of  
the liver & spleen. This  
is the liver you will  
easily detect -

7<sup>th</sup> Exaltation in the  
Stomach from acid &  
worms - Dyspepsia Dis-  
order gives rise to cough.  
& may produce an  
organic Dis. of the lungs  
the heart.

8<sup>th</sup> Cough may be  
excited by effusions in  
the brain. One remarkable  
instance I this kind I  
well recollect. This kind  
in the brain is com. to the  
lungs, by means of the  
parajugum.

If you will ask  
as this is, presented to  
you as a symptom of

to many Dis. - you will  
 wonder why I have not  
 all this presented it  
 to you. But it is  
 certainly well worth to  
 consid. it.

If heat a cough there  
 as a Dis. told be about  
 we would all trace out  
 the cause of irritation.  
 In general as soon as  
 we know the dis. we  
 cure the cough. When  
 it arise from nervous  
 debility we will endeavor  
 to invigorate it

Peritussis. The most  
 acc. is situated in the  
 lungs. In the most the  
 cough is spasmodic -  
 at first mild - as it



a woman become more  
 continued to. Some time  
 she is a sec: from 12  
 hours: &c. After this is  
 just the acidity. There  
 is a small black & eye  
 on the face & eye. She is  
 lower it sometimes excites  
 bronchitis on the throat  
 It is prot: for many  
 weeks - It is out to be  
 lower for months afterwards  
 Finally a dis: of chills.

On this dis: you will  
 observe there is an irrit:  
 of the pneumonja, the mem:  
 She is an irrit: in the  
 stomach. & in all the  
 extremities.

Causes. A slight  
 morbid aerial poison  
 Mostly considered contagious

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var. It seems generally  
in small epidemics - & often  
by contagion - This is one  
of those diseases which attacks  
persons without notice - but  
I have seen it occur  
often in the same persons.

Treatment. In the  
early stage of the disease  
when there is fever &c.  
will be necessary. Emetics  
are very useful - Antacid  
will afford relief -  
Cal: potash. Three days  
of an acid - Opium. Sup:  
so as to keep the bowels  
well relaxed in the early  
stage of the disease - but  
phos & the are beneficial  
as antispasmodics - blister  
over the seat of the disease -  
Opium &c. at the end:

to irritate the bronchial  
tubes & lead from irrit-  
& inflammation. When they  
are developed ahead  
your heart is the most  
jealous.

In the cold stages  
when the infl. is removed  
& in cough returns & is  
moderately by the  
irritations - use first  
allow a generous diet.  
&c.

Asthma or Labored  
Breathings - This like cough  
may arise from many  
causes - Drying - Irritation  
of the canaliculi of  
the ribs & have known  
it produced - Asthma can  
not itself be cured. as  
air: but a regulation of



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They. E. de la. S. and  
 various cause. In  
 Philis in the exper. on  
 the Nerve with galvanism  
 ism & the induced mag-  
 netism of the Nerve. It  
 consid: that this depend-  
 on morbid action in the  
 Nerve. I propose  
 that in the Nerve action  
 we should use Galvanism  
 Apply one pole of Gal-  
 vanism to the Nerve &  
 the other to the Nerve  
 tissue. In this way  
 the Nerve is. You will  
 al: seek out the cause  
 & treat for it.

Asthma This is a  
 Nerve of great diff: It  
 is the Nerve of the  
 Nerve. We should

It coughs, dyspnoea arises  
 from various causes. Dry  
 Asthma. I have been hap-  
 py to observe it from the  
 list of Diseases. You will  
 find that this term is  
 used in many of the books  
 to designate difficult breath-  
 ing. But I am compelled  
 by symptoms and diff: to  
 regard it as a dis: It  
 may sometimes be off  
 without any organic  
 lesion. Yet in all per-  
 sons organic lesion will  
 most frequently be found.

In some cases of Spasmodic  
 they may be dry in the  
 day & humid.

12<sup>th</sup> The dry this is  
 the reason of some colds  
 Paroxysm is short  
 and due to great cold.

sticcities. cough dry - little  
expectoration. little mucus  
Sec. - every thing above the  
throat is dry & constricted.

- The humid. The paroxysm  
gradually becomes more &  
more violent. The action  
is more pronounced. The  
cough is above the chest is  
humid & severe. cough  
is out. expect. at first  
mixed. but at length  
takes a serious character  
& is more abundant.

In both there is an  
irregular action of the  
muscles of respiration -  
This action Dr. B. is not  
characteristic. Others be-  
lieve it consists in an  
spasmodic contraction of the  
inspiratory tube. This



abnormally opinioned. At-  
 the same time it is evident  
 that the muscles are aff-  
 ected in a peculiar way.

In the dry asthma.  
 The bronch & trachea  
 thinning, an very sensi-  
 ble to the action of for-  
 eign particles - is a dry  
 & cold atmosphere. A  
 person exposed to such  
 air will always have  
 a paroxysm of asthma.  
 I have seen many per-  
 sons so exposed could not  
 make it if I were was  
 sufficient.

In humid asthma.  
 There is an increased se-  
 cretion of mucus & it is  
 very dependent on the  
 air. I often

That the Dis. depends on  
 the ability to increase  
 Dec. The paroxysm will  
 last for some time - all  
 times in fact - & compels  
 to keep an erect or  
 sitting posture - Now  
 will seldom find or  
 sense less in this Dis.  
 It seems to consist in  
 some arrangement.

In most cases the  
 kind of motion is a  
 state more or less of the  
 great vessels of the lungs.  
 This seems to consist in  
 state similar to that  
 we are find in the  
 air in the  
 from itself by an internal  
 secret.

In the living it is sur-  
rounded by numerous Sec:  
of mucus.

When asthma comes  
forming in the system it  
will be attended by a  
retreat of the mucus &  
the enclosed fluids from  
the cutaneous surface -  
In this, in st. they seem  
to take two lungs & go  
this resting place.

It is oftentimes  
An unhealthy state of the  
lungs near the diaphragm  
them to the diaphragm  
when exposed to cold  
the air with a parox-  
ysm. I well know impos-  
sible to stand out ac-  
cording to the cause. It has



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close affinity between  
this dis. & one seen with  
displeura - comes on with  
it & with it disappears.  
The paroxysms of the  
Anisacaria I have seen  
come on to it. The  
displeura will be likely  
to produce this dis. you  
can easily understand.  
The stomach may be  
sup. habitually to expe-  
rise an infl. over the  
lungs. It excites the  
the paroxysms seen in

As the disease is an-  
is in bronchitis: the  
the inflammation with the  
dis. But of the asthma.  
will come with violence  
Not of the same kind  
generally increased

It is apt to give rise to  
the dis. of Nerves - effused  
by water. Dis. of the heart.  
Accum. of the liver. &  
enlargement of the or-  
gan. & in this way  
general dropsy may be  
induced. In the same  
way Dis. of the heart  
springs up. The organs  
tho: oft: anat is some-  
times looked upon the  
primary Dis. & it will  
be found as consequence  
of the cause. At this  
subject I shall again have  
occasion to write

Treatment. I don't  
do much aim at cu-  
ring as much as short-  
ening the paroxysm &  
keeping it off. Hence

3360.C.

We must end: to ascertain what can exist in a local situation. Next to. As to local situation we can determine but little a priori. We must attend to the disposition of each particular case.

So of diet. Many kinds of diet exist in one who has no effect in others.

When as Mrs. A. does clear up her affairs all in evening hours - that is spontaneously. This is sometimes perceived in periodic dis. Mrs. A. will disappear & after we are all well out of the obvious cause. Now



When the 20 occurs in  
 the man. M., will cont.  
 for a long time. & finally  
 he will die from some  
 the dis. set up by it.  
 the man or much food  
 in multiplying the parox-  
 ysm. The common conjunc-  
 tion B. & cupping can  
 be used. Tho' you will  
 not find so much bene-  
 fit from it as might be  
 expected. Often <sup>the paroxysm often</sup> the  
 is not an inflammation. The dis. is  
 not an inflammation. But a  
 kind of morbid action.  
 then set up independent  
 of inflammation. Hence M.  
 can't cure it.

2<sup>d</sup> we will enquire  
 from the observation of the  
 acc. will observe the  
 paroxysm. to effect the

we will adm<sup>l</sup>. <sup>emetic</sup> besides  
 in this dis. it vacu-  
 lating the stomach, the  
 exert a specific ac-  
 tion on the lungs. Em-  
 etic act is elay the  
 bronch. sec. of the lungs  
 &c.

3<sup>rd</sup> by adm<sup>n</sup>: of cast:  
 especial Mer: cur. &  
 how it act on the  
 liver, the stomach &c.  
 It is surprising w<sup>t</sup>  
 quantity of bile will  
 be evacuated by emetic  
 & purgatives. Don't allow  
 come from or your pa-  
 tient be diseas by this  
 app: it will be more  
 trying the cause & sol<sup>y</sup>.  
 This is also a remedy  
 than a primary cause

Copian, purj: is not  
one of ours but sometimes  
you will understand.  
When they are on the  
long bones &c.

Let you will find  
Antonia's to correspond  
is when it is found to  
exist.

You will endeavor  
to allow for some modic  
act of supervision or  
down - in a coloration

Open - 11g

Open - 11g

Open - 11g

There is a relation - name  
of Antonia's would  
be in four lines - or

you may find the fol.

Open 11g

Open 11g

made & divided into 10 pieces



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Opia . 119

Ascofali. - 24 gr.

Prob: Am: - 8 gr

Or. Sulp. E Mo Zvi

Zinc Opia Zi

Alcohol - 2

Exs. Lycopodium - All  
the nancote remains  
will be used of any 5 -

We may arrange  
to promote respiration  
a great many of  
these med: may be  
described to. I will  
for you some formula  
Gent: Lohia. 40 drops  
in effusions of liquoris-  
for acc: to em: -

It is a Lycopodium of  
spring of 1891.

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Lac: Am: ʒij  
 Syr: Sijus ʒij  
 Paneyrii ʒij-

Lac - 10 gr  
 pul: squill - 24 gr-

Mix & divide into 8 pills,  
 All these formulae which  
 in all cases are highly useful  
 increase the expectoration.

Opium 11 gr  
 Specac: 8 gr  
 Carb: Am: 16 gr-

Div: into 8 pills - five acc.  
 to circum: - or more or

Ur: Specac: ʒi  
 Paneyrii ʒi  
 Amm: Alcoholic ʒij - dose tea-  
 spoonful - pr de nata.

The formula will succ  
 in every kind of asthma.

The steam of wat or  
 wat mixed with Anacard:  
 - or ex of vinegar

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It is resorted to in  
cases of em.

We may use blisters or  
sinapisms as counter irritation  
Irritation in the base may  
lead off the paroxysm.

All I have said has  
only related to the pal-  
iation cure. We of no  
specific know when the  
dis. has entered the  
period of middle life.

1st by avoiding all  
the exciting causes. 2dly.  
By the use of prep. of Iron.  
3dly By the use of repe-  
table pills These may  
be combined with the  
prep. of iron. The cure  
can during the absence  
of the paroxysm often does



good - will arrest the paroxysm  
in this occurrence.

Asphyxia. This cond: arises  
from drowning, hanging, from  
breathing impure air &  
from lightening.

In all these cases the dis-  
e is essentially a malady of  
respiration. Thus in the  
first: suspended - when  
an individual is submerged  
or hung, the air is excluded  
from the lungs - Take the  
patient from this sit: &  
the pulse will soon be  
beating - but will become  
more & more feeble - Now  
death seems to be consequ.  
of blood & air impure  
being received into the  
heart & thence sent into  
the whole system - The  
heart does not stop to beat

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When the heart sees the  
black blood - but grows  
this blood being sent into  
the heart itself - into the  
brain, spinal marrow  
&c. The blood is no longer  
renewed &c. - as a  
conseq: unfit to support  
animal life.

If we suppose an animal  
subjected to hemorrhage  
on the head the animal dies  
apoplectic. When this takes  
place suddenly he does not  
live - but when he dies grad-  
ually he dies apoplec-  
tic. When a cord is applied  
around the neck of the  
cervical the blood is cut  
off from the head. Now  
if the heart still beats  
& the rope does not

prevent the blood from  
flowing to the brain it is  
evident that the vessel died  
apoplectic.

The practice is  
disperand animation has  
been uniform & empirical  
& utterly unnecessary -  
The great indicat<sup>n</sup> is to  
restore the respiration if  
this be soon done it is  
clear the person may be  
saved. But if the funct<sup>n</sup>  
of liver & heart be in some  
measure lost - it is not  
probable we can effect  
a resuscitation.

The first effort we  
are to make is to inflate  
the lungs - The bellows are  
recommended by Hunter &c.



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In every instance in wh<sup>ch</sup>  
I have used it I have  
found it distended &  
inflated - we cannot  
prevent it by using any  
kind of pressure on the  
vesophagus. The con-  
tents of the stomach will  
be forced up the oesoph-  
agus by the admission of air.  
Another mode is to per-  
form the op<sup>n</sup> of Laryngot-  
omy. The venous vessels  
are now enlarged &  
in performing the opera-  
tion the blood will flow  
into the neck & will  
put at an end to all  
hopes of returning an-  
imation. The best  
plan is to introduce a

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take into the lungs - The  
stimulus of the tube on the  
pericardial oblique. This  
tube we may inject  
stimulating vapors - or  
blow with our own mouth.  
At the same time the  
lower end is connected  
respirations & exerting pres-  
sure on the ribs & epigas-  
trum - There is no  
motion in any of your  
attempts. This respira-  
tion is from being nat-  
ural. The muscles con-  
tract. The diaphragm is  
immovable. The change  
on the blood does not  
reach. The air comes in  
contact with the bron-  
chial tubes. The chemical  
change does not occur

300<sup>th</sup>  
take place. I do not  
put much confidence  
in these exertions at  
inflation - That occa-  
sionally it seems to have  
good effect. The irrita-  
bility of the lung may  
be removed by artifi-  
cial desiccation is made  
by the admission of air and  
the mucous membrane of  
the bronchial tubes -

It is a con. reaction  
to res. in asphyxia. Only  
when you have good re-  
s. for supposing the  
brain to be congested  
and a new res. under  
these circumstances you  
may cut the trachea  
It must have been said



alone in ap: of heat to  
 persons in apoplexy - In  
 cases from suspended An-  
 imation or in lightning we  
 are directed to use topical  
 affusions of cold water &  
 when it occurs from  
 breathing deleterious air -  
 when it occurs from drown-  
 ing we are to use warm  
 applications - They are  
 improper in cases from cold  
 in lightning &c. & why  
 shd we admit them in  
 cases from drowning -  
 When an individual is  
 in a state of apoplexy  
 from drowning shd we  
 use warm applications  
 This I recon: from the  
 usual views. Persons  
 with apoplexy from

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It is now remembered that  
cases from cold - I was  
not prescribed warm-  
ap: - I well attended  
it with cold - cold  
I heat thus attended  
years since good one of  
the most powerful  
exciters of the suspended  
energies of life.

It is the generous and  
insane. Whipping with  
rods & beating with  
sticks and sometimes  
joined to be beneficial  
Punishment -

Stimulants introduced  
into the system & stomach  
will often excite and  
action in the system and  
apoplexy - Electricity has

been seen: from the  
man. in. with it excites  
momentary contraction  
after which we might  
expect a great deal  
from it. It seems ex-  
posed does not seem  
it confined. This opinion  
slight shock. The  
passed along in 20 mins  
of the pressure after news-  
at that intervals. for  
2 or 4 hours.

In all these cases it  
will be most impo-  
sible to drive off all by  
standby & let the patient  
have a few passes of  
air etc.

Viscous of the circula-  
tion functions -  
This will compensate



aff. of an inflamed state  
 as in phlegmasia, &c.  
 eruptive aff. & will  
 include the eff. of the nerv-  
 ous & ~~neurotic~~ conditions,  
 as of dropsy & will bring  
 us back to the consid. of  
 many of those malac-  
 utine & some considera-  
 ble acute affections.  
 too fully the import. of it  
 can be fore-

Before comm. the consid.  
 of the dis. we will consid.  
 the funct. in anatomy,  
 physiology &c. The funct.  
 of circ. is one of universal  
 extent being found every  
 where - it is a sustaining  
 funct. to all the rest. In the  
 a period of life to all in  
 rest. The circ. of the blood  
 shall be considered ~~the~~

to the student of med.  
 How can we all families  
 with the function. But spe-  
 cially have a drop of blood  
 thro' the system.

The influence of nerves  
 on the heart. The heart is  
 supplied with nerves from  
 the brain, spinal marrow  
 & the great sympathetic.  
 Does the heart derive its  
 contractile power from the  
 nerves? This is an undecided  
 point. It seems to derive  
 its power from the blood  
 viz: a coronary repetition  
 to nerves. A 3<sup>d</sup> relation  
 of nervous influence is the  
 action of these organs upon  
 its action. & 3<sup>d</sup>ly. The in-  
 fluence of the great sym-  
 pathetic. If you abolish the  
 nervous influence you will  
 have none but the influence

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The vessel, left. The nervous  
system requires a continuous  
supply of blood. It is  
able to perform its work  
it must have occasional  
extraordinary supplies of  
blood. This blood must  
come from some source  
or be sent at certain  
times to throw out an  
increased quantity of  
blood. That this is the  
nervous connect. I think  
is obvious. If this be  
an irritation in the exten-  
sion of the pulmonary  
heat will be increased  
increased action. Now this  
must be with the nervous  
system of the extended system.  
If we reject the right of  
the extended system we  
must admit the nervous  
connection.



No one can be considered  
 sane, or, in other words, unless  
 he has become a grand  
 master of the mind and  
 his own heart can affect  
 a servant to his will. This  
 is affected by the mind  
 over the heart. If there  
 be a great excitement in the  
 heart the heart will beat  
 with unwanted energy.  
 The passions have a  
 powerful influence on  
 the heart. Different states  
 of feeling excite different  
 in heart & this is done  
 by means of the nervous  
 system.

The nervous system has  
 an influence on the whole  
 body in this way. The nerves  
 are supplied with various  
 powers in this way. In  
 the action there are  
 many connected pieces  
 of the body & a number

branches to the vessels  
 passing this point. Many  
 of the nerves of the arteries  
~~are supplied with~~  
 come off from the cerebral  
 plexus. It seems to be  
 demonstrated that the  
 vessels & capillaries are  
 abundantly supplied with  
 nerves. Several parts of  
 the body have a sensibility  
 of a peculiar kind. Thus  
 the Larynx, placed as it is  
 an incessant recipient of  
 the part. Examples of  
 kind are afforded by  
 the organs of sight, taste  
 in the muscles. as the  
 Digestive glandular in the  
 uterus. Hence we see  
 the close connection of the  
 nervous & vascular sys-  
 tems.

Symptoms of Disordered function of the circulatory organs.

In proport. to our knowl. of the animal economy in health we have become acquainted with its departure from that state.

The 1<sup>st</sup> class of the morbid app: are the changes in volume or of the parts, wh are affected and dangerous. Excess of size indicates either hyper-  
trophy or excessive growth. Or  
depositions of fat. Or effu-  
sions or extravasations of blood.

The process of serous secretion being in excess. Or congestion  
or accumul: of arterial blood  
or from acc: of venous blood  
or from defective absorption.

Now under this, now wh  
we find a part enlarged  
we are concerned w<sup>th</sup> of this  
cond: can give rise to it

Diminution of a part.

- 1<sup>st</sup> May arise from atrophy
- 2<sup>d</sup> from defective circulation



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in a part. as when a part  
is exposed to cold it becomes  
shrunken &c.

From the cause w<sup>h</sup> either  
diminish or increase the  
size of parts we proceed  
to consid: the changes of  
color w<sup>h</sup> occurs in parts.

1<sup>st</sup> By acc: of arterial blood  
fin rise to a florid hue.

2<sup>d</sup> from venous acc: giving  
a violet or purple complex  
ion to the part.

3<sup>d</sup> Acquire exhalation order  
minished absorption gives  
lives a pale colour - may  
rise to the lips, & hypostatis  
appeared.

These complexions will  
be of great importance to  
a practiced eye.

We have change of tem-  
peratures. Increased warmth  
arising from increased ac-  
tion of the circ: of a part.

2<sup>d</sup> change of temper: may  
produce defective heat.

Showing that the cir: is not  
carried on actively in 12 parts

Changes in the Sensation  
of parts. 1<sup>st</sup> Indicate to  
be excessive arterial action.  
from rise to pain. & excited  
sensitivity. Hence by disease  
in the accum: in a part  
you lose sensibility.

2<sup>d</sup> Defective determination  
of blood to a part. causing  
diminished sensibility.

Change in the amt: &  
quantity of secreted fluids.  
in an organ. 1<sup>st</sup> Indicate  
excessive determination of  
blood giving rise to increased  
secretion of the organ.

2<sup>d</sup> Diminution in the  
amount indicates defect-  
ive secretion in an organ  
For this there are some ex-

ceptions. A great supply of blood to an organ may subvert its secretory function & transforming power. Or it may <sup>be</sup> a small determination will find aid to increased secretion.

Changes in the quality of the secretions of an organ 1<sup>st</sup> afford evidence that the supply is either increased or diminished determination. The organ becomes diseased & hence its functions will be morbid.

Enoridionate rigidity or drowsiness or comas alike indicate impairment of the brain - from acc: of venous or arterial blood. Let them acc: be carried beyond exposure & death & you will have comas & stupor.



<sup>M</sup>Problems of pulsatory movements in a heart radically increased action in a heart with excessive sensibility of a part.

Such are the principal signs of the limits of the same junctions of a part and described. Then among the four natural principles of association then a swelling will be attended with pale & cold color, augmented heat & perhaps throbbing - A defect of color will be indicated by diminished volume heat, sensibility & of the natural color. Hence you see on this calls for another. In venous acc. the vessel has a violet color or not materially altered - The vessel diminished sensibility & heat of the part. Now suppose the acc of serum - This vessel be diminished sensibility - Pale red - defect of color & heat. This const: the oedematous state occasionally comes the other condition may be present in a part

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In coma the will be increased heat about the head. In the case of dis. of the brain which arises from venous acc. the arteries will be induced to increased action, exciting heat.

The most important signs are afforded by the pulse. In the small ones the pulse cannot be detected. When they are due to a certain we cannot feel the arterial throbs. being synchronous with the pulsation of the heart it is evident that the phenomenon depends on the heart. How the artery co-operates in forming the pulse we don't exactly know. The best opinion at this time is for it to attribute the pulse to the impulse of the blood on the cardiac orifices of these vessels & then sending it along the tube. This united with the dilation & contraction of the vessels seems sufficient to

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due to explain the action of  
the pulse.

In the state of heart we, into  
no be relied on. but in this  
we can too longed rely on one.  
we must compare this with  
others & with the pulsations  
of the heart itself. Thus exam-  
ining the pulse is a grand diag-  
nostic & prognostic indication.  
The various states of the pulse  
in the books, which I found in  
practice never being able to  
discover.

The following states of the  
pulse seem most characteristic  
1<sup>st</sup> a frequent pulse with  
refers to its frequency. 2<sup>nd</sup> a  
quick pulse refers to its action  
3<sup>rd</sup> a slow pulse - 4<sup>th</sup> an in-  
frequent pulse combined with  
frequent - 5<sup>th</sup> an intermitting  
pulse - 6<sup>th</sup> a quick pulse -  
it may be in the pulse or  
hard - 7<sup>th</sup> a small pulse  
when it is weak constantly  
a firm & muscular pulse  
a small & weak seems to



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Arteriole a circumscissus - In ipso  
a pulsa is small & not full  
this const! The wing pulse -  
8<sup>th</sup> The soft pulse - when it  
is easily compressible - If  
we suppose it art. more clear  
the later - & by the same contact  
the arteries act freely & no white  
be enlarged - if it easily com-  
pressed it is evident it is not  
enlarged by the heart - Hence  
you see the arteries have a round  
character - 9<sup>th</sup> a hard pulse  
shows the force of vis. & is  
concentrated in the artery & easily  
compressible - 10<sup>th</sup> a tense pulse  
11<sup>th</sup> a strong pulse which  
represents the state of heart.  
12<sup>th</sup> An elastic bounding, ir-  
regular pulse frequent & easily  
compressible - two of the  
most interesting is found at  
arteries - because in inflamma-  
tion when you touch it you  
think you have carried  
the hand through it pulse  
is ~~irregular~~ frequent, full  
& bounding, now you will

again I shall you for the  
 and your deplorable means  
 under this rule & avoid  
 running into error as I do  
 in it. 3<sup>rd</sup> The depressed  
 & oppressed pulse in some dys-  
 pnoea of the heart. It is  
 a sign of excess & change of de-  
 pression. When you have the  
 pulse you have one of the  
 the most oppressed in the  
 air, especially the action  
 of the heart & you have  
 oppressed in the heart  
 itself. If you have acc-  
 in the heart from con-  
 striction in the lungs & if you  
 have had the cavities  
 of the heart & its substance  
 in a morbid state. At  
 the same time you will  
 have accumulation, in  
 the venae cavae & as a  
 consequence of this a con-  
 striction of the spinal mar-  
 row. Now under the 5<sup>th</sup>:

I say if under this cir: if  
 you take a way blood  
 from the circulation you  
 will relieve the action of  
 the heart - 1<sup>st</sup> The obstructed  
 pulse - This is an accom-  
 paniment in the ~~diffusion~~ & force  
 & frequency of the pulse - All  
 these may be grouped so  
 united. The pulse may  
 be full, frequent, slow &  
 hard. A pulse may  
 be frequent, quick & soft  
 &c. The pulse is seldom  
 very full & very hard or  
 very quick & very frequent  
 or very slow & very  
 hard. but it is often  
 frequent & small. When  
 it is exceedingly frequent  
 it in female gives indica-  
 tion of a state it does  
 not admit of further  
 debilitation. A full  
 tense pulse indicating a



3  
relative exaltation of the  
system - when it is intimate  
sent is enormous, & a great de-  
velopment from a state of  
darkness. & you see

General precaution, so  
necessary in dealing the world -  
sometimes the duty of one as  
more deeply states has  
the other - Hence you will  
be advised in any you feel  
the pulse in both arms. The  
position of the arm must  
be attended to. Keep it  
relaxed & free from all  
pressure. The temperature  
of the limbs must also be  
attended to - If the arm  
has been extended out of  
the arm clock, - Position  
the latent effect is  
in itself - it is always  
more active in the erect  
position - In the reclining  
position the pulse will be

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diminished in size & frequency  
eye. The passions & emotions  
of the mind increase the  
frequency & sometimes the  
force & at other times de-  
crease the force of the  
pulse. During fear & fright  
the pulse will be increased.  
This is the hysterical pulse.  
A new emotion will spring  
up after the emotion of fear  
has passed off. Before the  
invention of certain modes  
of ascertaining the state  
the heart was depended on  
the motions of the pulse to  
tell us of the condition of  
the heart in diseased or  
unhealthy states. This is now  
ascertained by auscultation &  
perception. The lungs are  
now examined in the  
same way & we could not  
have done modes.





Med Hist.

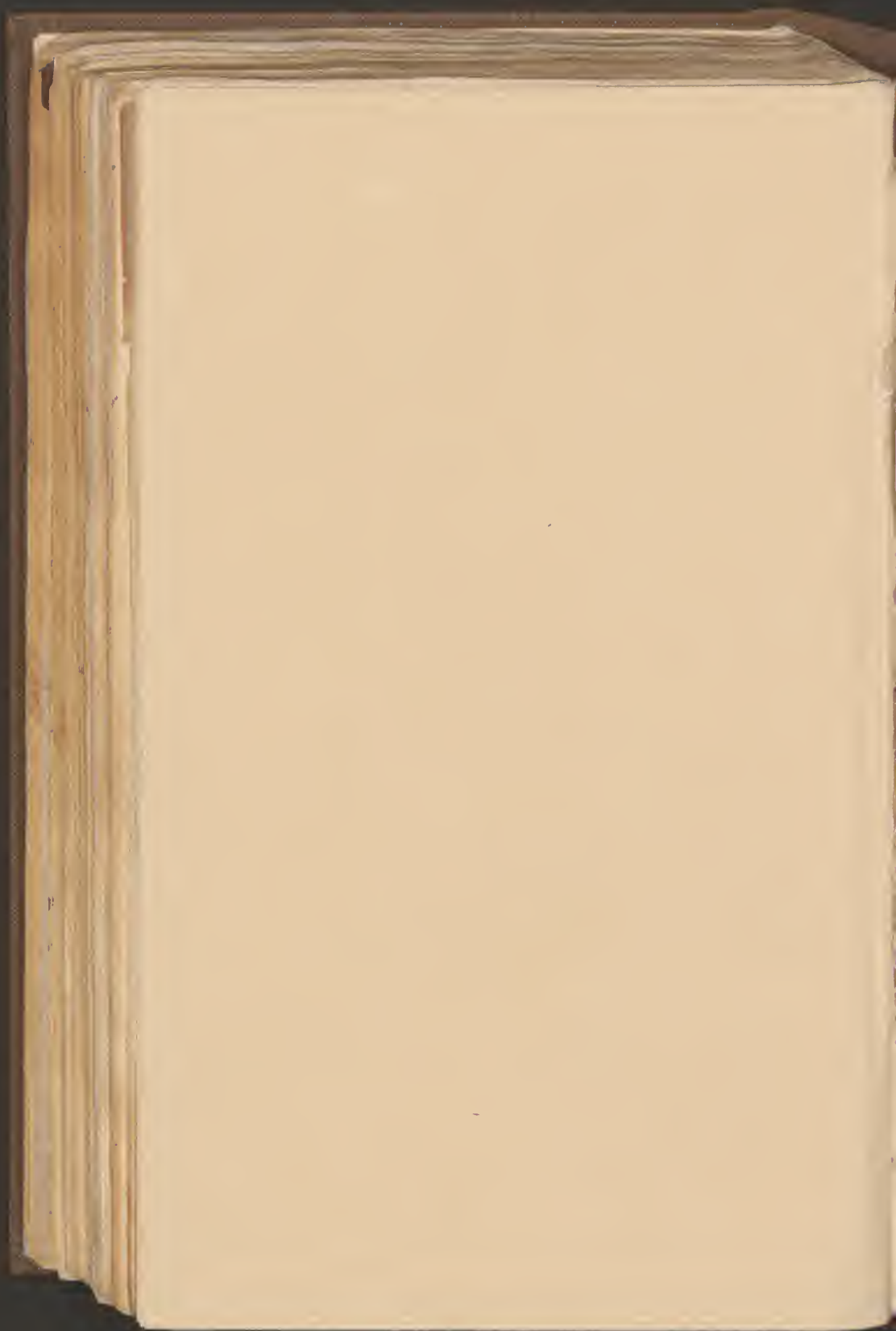
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